1	Major Milestones Timeline
2	Facilities Evaluation
Site Evaluations Summary	
4	Educational Visioning Summary Document
5 Educational Programming Document	
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

Educational Program

summary of educational visioning sessions

Educational Visioning is a process which brings together a large cross-section of stakeholders, residents, and educators to develop learning concepts, goals and values which result in a comprehensive, long-term planning tool for the school district. When a new project is being considered or proposed, educational visioning provides the cornerstone of all educational planning, and it defines the nature of school operations, function, and opportunities for the future. It literally shapes school and community relations for decades to come.

Educational Visioning in Abington was facilitated by David Stephen of New Vista Design. David holds a Bachelor in Architecture degree from Rhode Island School of Design and a Masters in Education from Lesley College. As an educator and licensed architect, David has collaborated with many pioneering architectural firms, playing a key role in the architectural design of over 40 new and redesigned elementary, middle, and high schools and has 20 years of experience partnering with some of the field's visionaries, working with schools nationwide to imagine, develop, and implement innovative school programs. At New Vista Design, David has helped districts, schools, and educators develop student-centered and inquiry-based curricula and programs.

Educational Visioning is a catalyst for generating ideas regarding how the school might best be designed to foster 21st Century education while simultaneously incorporating the needs of the entire community. It enables the architects to develop building plans which are consistent with the needs of the Town of Abington; incorporating the educational, community, organizational, and functional goals and values articulated in the visioning sessions.

The Educational Visioning process included an evaluation of the high school and middle school educational delivery and facilities today and a projection of the future for both. The Educational Visioning report contains the result of that evaluation. Some examples of barriers to effective educational delivery in the current Abington High School and Frolio Middle School facilities include the lack of flexible learning spaces for educational projects that require team work, inadequate science labs, the absence of teacher centers for collaboration, a lack of support for applied learning and student presentations, a poorly organized high school building that deters interdisciplinary or collaborative learning, and a Frolio Middle School which does not support modern middle school programming and is grossly undersized.

The Educational Visioning and Programming sessions included the following:

- April 8, 2013: full day session with faculty, staff, and administration
- April 25, 2013: 3-hour session with Building Committee and faculty, staff, administration APS
- April 29, 2013: 2-hour session with administrators existing school configurations
- May 16, 2013: 3-hour session with Building Committee and faculty, staff, administration APS
- May 29, 2013: 3-hour session with faculty, staff, and administration APS. Floor Plan Bubble Diagram
- June 13, 2013: 2-hour session with Building Committee. Floor Plan Bubble Diagram

The following individuals are recognized for their commitment and involvement in this extensive and comprehensive process. Their input and guidance proved invaluable and will become a key component in shaping the future of the Town of Abington and Abington Public Schools.

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SESSION 1 – April 8, 2013

The Agenda for the April 8, 2013 session included the following:

TIME	Activity	Purpose
8:00 - 8:30	Socializing	
8:30 - 9:00	Workshop Goals and Introductions	Priority Goals for the New Facility
9:00 - 9:45	Brainstorming Session	Abington Strengths, Challenges, Opportunities and Goals
9:45 – 10:45	21 st Century Design Principles and Patterns	Discuss and identify changing paradigms in Education
11:00 - 11:40	21 st Century Learning Goals	Small Group discussion and priority learning goals
11:40 – 12:30	Abington Guiding Principles for Design	Small group discussion between desired program features and Guiding Principles and priorities to support design
1:15 – 1:45	Abington 21 st Century Design Patterns	Small group exploration of connections between Guiding Principles for Design and the desired Design Patterns that will best support them
1:45 – 2:15	Blue Sky Ideas	Individual thought regarding a list of no-holds-barred design ideas for the new facility to expand thinking about what is possible and desirable







Subsequent to a review of workshop goals and introductions, the participants were divided into three groups to begin to discuss and document what they believed to be the Strengths, Challenges, Opportunities, and Goals within the Abington Public Schools. The groups first documented their brainstorming on paper and then shared their thoughts with all of the participants. The following is a summary of their discussions and presentation:

GROUP 1:

Strengths:

- Size small community
- Staff quality & commitment
- PD consistency, rely on in-house "specialists"
- Credibility
- Breath of programming AHS
- Maintenance staff

Opportunities:

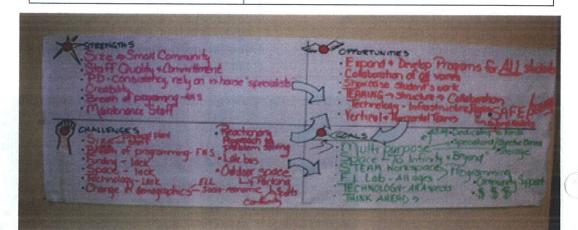
- Expand & develop programs for all students
- Collaboration of all voices
- Showcase students' work
- Teaming structure collaboration
- Technology infrastructure, program hybrid models
- Vertical & horizontal teams
- Safe/security

Challenges:

- Size
 - Physical plant
 - o Staff
- Lack of programming FMS
- Funding lack
- Space lack
- Technology lack
- Change in demographics
 - o ELL
 - o **Socioec**onomic
- Reactionary approach to problem solving
- Late bus
- Outdoor space
 - Parking
 - Sports
 - o Community

Goals:

- Multipurpose, as well as:
 - Dedicated to needs
 - o Specialized / objective based
 - o Storage
- Space "to infinity and beyond"
- STEAM workspace programming
- F.L. Lab all ages programming
- Technology all aspects
- Think ahead
- Community support
- \$\$\$



GROUP 2:

Strengths:

- Ability to adapt space & materials
- Agility of grade configurations
- Creativity and coping strategies
- Ability to work with limited resources
- Safe and secure environment

Opportunities:

- Look at needs across all grade levels (make an impact)
- To create a facility that promotes project based learning
- To create a more community based school environment
- To create an inspiring, inviting, prestigious and nurturing environment
- To incorporate technology that supports and expands programs

Challenges:

- Lack of vertical collaboration
- Schedule variations
- Lack of interdisciplinary collaboration
- Transitioning from school to school
- Poor and aging buildings (organization & condition)
- Lacks inspiration within the building structure

Goals:

- To promote state of the art technology infrastructure to support instruction
- Flexible and adaptable
- To promote school/community relationships
- Build on strengths and address challenges
- Look at cross disciplinary instruction (how facility promotes)
- Beauty and inspiration



GROUP 3:

Strengths:

- Intervention based
- Collaboration
- Flexibility & adaptability
- Strength of core educational programs
- Efficiency of space/ technology
- Creative use of resources

Challenges:

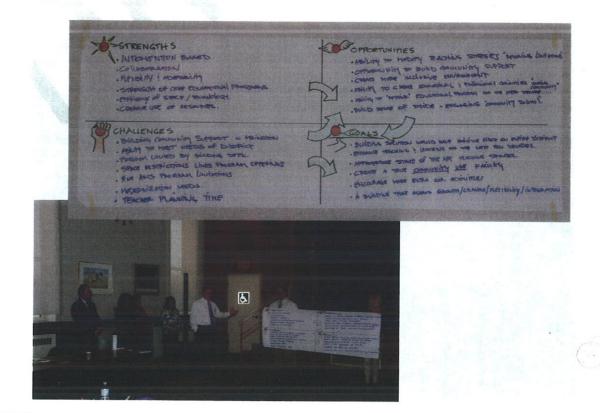
- Building community support in Abington
- Ability to meet needs of district
- Program limited by building deficiencies
- Space restrictions limits program offerings
- Fine arts program limitations
- Modernization needs
- Teacher planning time

Opportunities:

- Ability to modify teaching strategies "removing limitations"
- Opportunity to build community support
- Create more inclusive environment
- Ability to create educational & professional committees "hosting community"
- Ability to "rethink" educational program for the next decade
- Build sense of pride engaging "community school"

Goals:

- Building solution would have positive effect on entire district
- Enhance teaching & learning for the next few decades
- Appropriate state of the art teaching spaces
- Create a true community use facility
- Encourage more extra curriculum activities
- A building that allows growth/change/ flexibility/integration

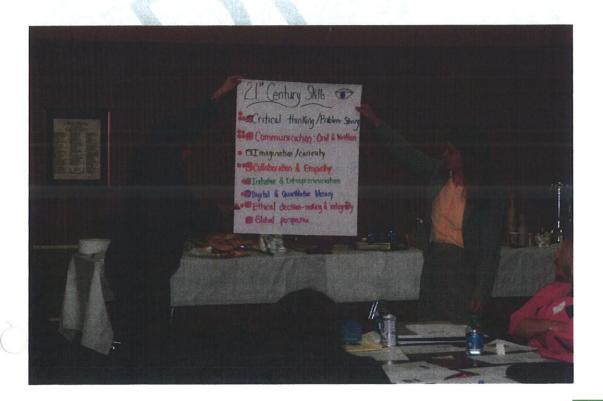


David Stephen then continued his presentation and slide show on 21st Century Design Principles and Patterns. The contents of his entire presentation were made available on the Abington Building Committee website subsequent to the presentation.

The participants were divided into three groups to brainstorm the critical 21st Century Skills required for students. They were asked to establish Priority Goals in delivering such education...all as part of developing Abington's 21st Century Learning Goals. The groups were encouraged to take their time discussing both current and future practices, and to consider information presented by David regarding successful trends across the country. The following is a summary of the identified "21st Century Skills" and the "Priority Learning Goals" aka Abington's 21st Century Learning Goals:

21st Century Skills

•	Critical thinking / problem solving	Ш
•	Communication: oral & written	Ш
•	Imagination / curiosity	1
•	Collaboration & empathy	III
•	Initiative & entrepreneurialism	- 11
•	Digital & quantitative literacy	- 11
•	Ethical decision – making & integrity	m
•	Global perspective	ľ



21st Century Skills

- Analytical and creative thinking and problem solving
- Integrity and ethical decision-making
- Effective Multi-modal communication
- Collaboration, Leadership and Teamwork
- Student as producer (initiative, risk-taking)



Priority Goals - Group 1

- To be helpful
- Priorities that filter down to elementary
- Expose elementary kids / communicate
- Envision future state of the art facility
- Space for intervention programs integration
- Bigger picture of building systems
- Open our minds about education and translate to building
- Facilitate best building possible
- Grounds increase sense of collaboration
- Design to foster community

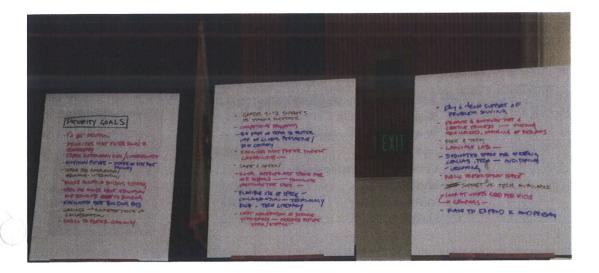


Priority Goals - Group 2

- Grades 7-12 supports HS staying together
- Competitive program
- Be part of team to foster importance of global perspective / 21st Century
- Facilities that foster student capabilities
- Safe & green
- SOTA appropriate space for our schools translate creativity that exists
- Flexible use of space collaboration technology rich tech literacy
- Next generation of science standards address future stem/steam

Priority Goals - Group 3

- Physical & tech support of problem solving
- Promote and enhance art & creative process steam tech infused, sharing of resources
- Flex & tech
- Language lab
- Dedicated space for meeting collaborative, tech auditorium welcoming
- Public presentation space
- Support of tech available
- Look at what's good for kids groupings
- Place to expand Kindergarten and Preschool



After much discussion and additional presentation from David, four groups were created for the purpose of brainstorming the most important guiding principles in the development of a 21st Century school environment. Each of the groups presented their summary of proposed guiding principles, and then all participants were allowed to vote on their preference among the guiding principles. The following is a summary of the suggested guiding principles, and the votes achieved by each:

Guiding Principles - Group 1

- School as a center of the community: community resources
- Adaptable space 11111111
- Small school community / large school pride
- Applied learning space / project based learning space 11
- 21st Century thinking and doing 111111 Hallways as an instructional tool (no lockers in the hallway)
 - Transparency of instruction

Guiding Principles - Group 2

- Focused intellectual engagement 1111111111111111
 - Visible learning
- Real world applications 111111
- Creativity
- Personalization & ownership IIIIIIII
- Community

Guiding Principles - Group 3

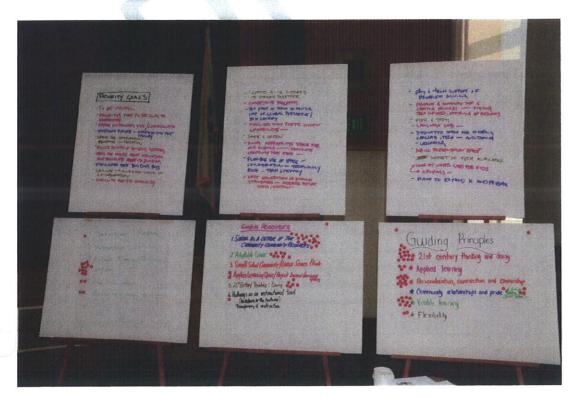
- Community and collaboration I
- Relationships
- Community resource / partnership
- **STEAM**
- Whole campus learning
- Building as a teaching tool (sustainability) 11

Guiding Principles - Group 4

- Applied learning
- Personalization, connection
 - and ownership 11111111111
- Community relationships
- and pride IIII Visible learning IIIIIIIIII
- Flexibility 11







SESSION 2 - April 25, 2013

The success of the initial one-day session led the design team and the Abington Public Schools to propose that the entire Building Committee have an opportunity to be part of a condensed version of session one, with an opportunity to provide input on many of the thoughts, ideas, and goals that were discussed in session one. The content of the slide presentation was also changed to include more information on the transformation of education over the past decades, including the video "Shift Happens". Although several of the Building Committee members are educators, many of them represent other facets of the professional community and the presentation was tailored to provide these members some insight on the evolving 21st Century educational environment. The presentation and discussion included thoughtful input and insight from the Building Committee members, and left them eager to continue the process by joining the school administration and staff in the next scheduled visioning session.

SESSION 3 - April 29, 2013

In order to become more familiar with the various school facilities within the Town of Abington, the design team requested a meeting with the school administrators to review past, current, and future use of each of the educational facilities within the Abington school district. Although the focus of the feasibility study is to program a middle school and high school facility, the integration of the lower grade levels into a comprehensive solution is also critically important for the Town. Therefore an understanding of the facilities currently serving grades PK-6 is important to future discussions of a comprehensive solution. After much discussion, the following summary diagram was generated by the school administration to summarize past and current use.

		TODAY	PAST
PreK	>	Center	PreK-2 (BBES)
K	/		1
1	1	BBES	
2			V
3	/	>	Center, North &
4			Woodsdale (3-6)
5	1		
	Wood	dsale	→
6			The state of the s
7	1	Frolio	Frolio (7 & 8)
8	1		▼
9		AHS	AHS (9-12)
10	1		1 3
11		>	
12			

SESSION 4 - May 16, 2013

As part of continuing to develop the concepts and ideas formulated in prior sessions, session number 4 focused on the development of organizational diagrams and "idea diagrams" for various areas of the building and program. The majority of the session was dedicated to this task, with the Agenda as follows:

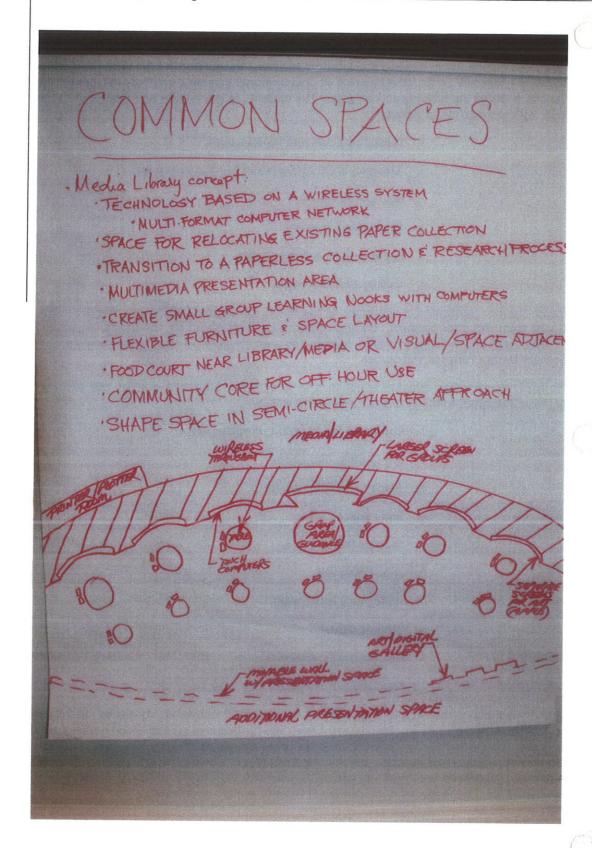
- 1. Workshop Goals and Introductions
- 2. Abington SCOG Analysis and Guiding Principles
- 3. Key Spaces Activity
- 4. Bubble Diagramming
- 5. Presentations and Discussion
- 6. Closing and Next Steps

David Stephen presented a summary of the SCOG (Strengths, Challenges, Opportunities, Goals) from the prior sessions. He also presented a "Refresher" on Abington's established Priority Goals and Guiding Principles, followed by a summary of his prior presentation on 21st Century Design Patterns and Spaces.

Participants were then asked to select an area of focus from the following list, but were not necessarily limited to these areas as part of the activity:

- 1. Commons Space / Multi-Purpose Space
- 2. 21st Century Classroom
- 3. Teaching Neighborhood
- 4. Entry Space
- 5. Teacher Works Space
- 6. Fabrication Lab
- 7. Performing Arts Center
- 8. Athletic Center
- 9. Display and Exhibition Spaces
- 10. Specialty Lab or Space

Prior to beginning the Bubble Diagrams, David presented examples, strategies, and goals associated with the exercise. Participants were then divided into groups based on their area of focus and given time to generate multiple diagrams, spreadsheets, lists, and notations targeted at sharing their thoughts on their selected program areas. The groups then provided extended presentations of their work to all participants, with opportunity for questions and input from all. The following is a summary of the information generated.

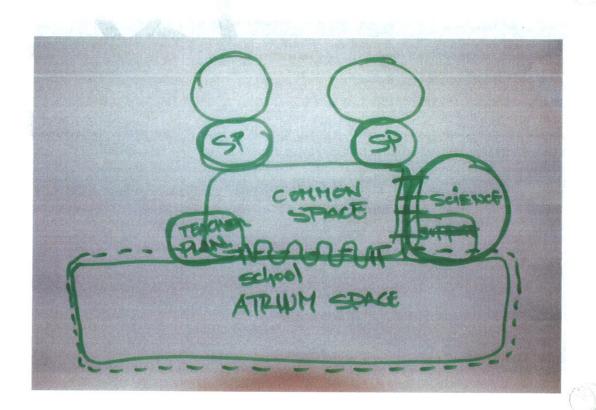


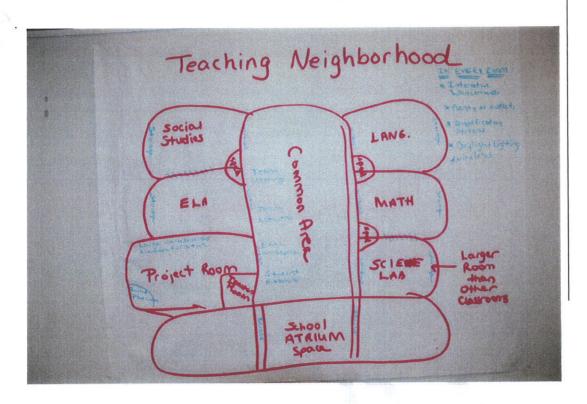
ENTRY INTERACTIVE DISPLAY BE ABLE TO DISPU WITHIN FIRE CODES DISPLAY FOR ABINGTON HISTORY BUICDING INCORPORATE OLD HOTION LIGHTING "WAVE" FORM WITHIN ARCHITECTURE STAFF CENTERED / CHILD CENTERED / COMMUNITY CENTERED DISPLAY EXHIBITION - ANT, MUSIC, STORES INVITUE, SCOTHING, CALHING HOOD/COLORS WINDOWS / VIEWS SAFETY/SECURITY LINES TO OTHER TOWN BUILDINGS LAUDSCAPE FURNITURE PARCIUS/BUSS WIDE EUTRY GLASS - DIAMOND SHATE IS CUEVE WAY-FINDING FLOOR ELENENTS ILLEROPATE DISTRAY WITH EUTEY COLORS LINE YIENING PLANTING INSIDE/OUTSIDE INDOOR - OUTDOOR CONNETIONS

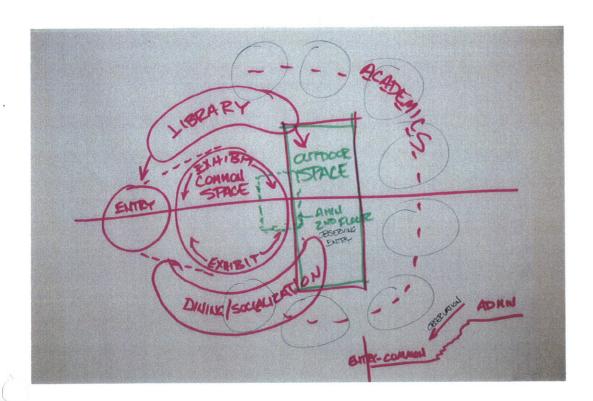
COMMON SPACE/MULTIPURPOSE

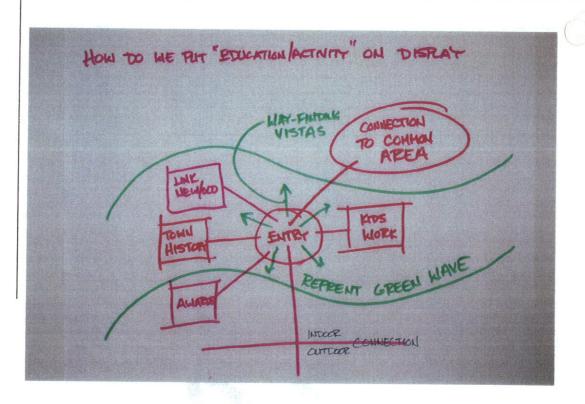
- SPACE LARGE ENOUGH FOR 2-3 CLASSES AT A TIME
- SHAPE FIT OUT TO ALLOW FLEXIBILITY IN SET UP WHILE MINIMIZING
- MEP SERVICES ON TWO WALLS FOR STEM/STEAM LAB SET UP/SPECIAL PROTECTS
- WHITE BOARD WALLS FOR AT 2 WALLS FOR FREE PRESENTATION OF IDEAS
- PRESENTATION AREA WITH INTERACTIVE WHITE BOARD & CLASSROOM AUDIO/VISUAL SETUP
- NOICE AMPLIFICATION & ASSISTED LISTENING
- · CABINETRY FOR STORAGE OF PROTECT SUPPLIES
- · LOCATE NEAR MEDIA LAB/COMPUTER OR SCIENCE LAB
- FLEXIBLE FURNITURE TO ALLOW CHAIR SETUP, LECTURE W/WRITING SUFFACE
- OPEN CEILING WITH ACOUSTIC TREATMENT WITH LABGRID
- WIRELESS WITH I PADYSTATION FOR STORE/CHARGE

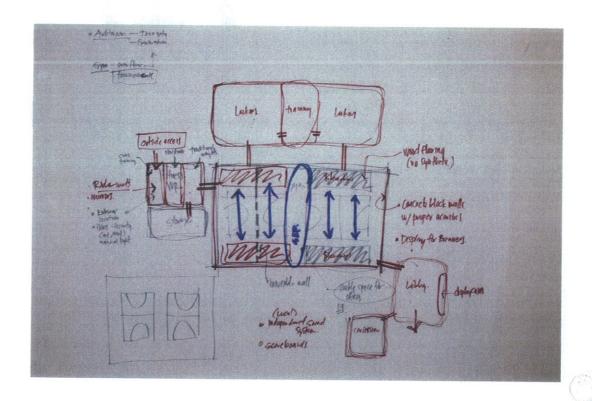












Although some of the groups focused on the details of an individual space, most of the groups focused on combining the thoughts and ideas of prior sessions related to 21st Century Skills, Priority Goals, and Guiding Principles into specific organizational and functional strategies that address the design and layout of a 21st Century educational facility for the Town of Abington. The following is a summary of the design concepts that were inherent in the bubble diagrams and form a large part of the vision and educational programming strategy for the Abington Public Schools.

Integration of Topics and Teams — The old traditional approach of segregating subjects by department is detrimental to cross-discipline instruction within the educational environment. In order for teachers to be able to facilitate the blending of multiple disciplines of academic instruction, teams must be organized to include multiple subject classrooms into a "Teaching Neighborhood", which includes four general classrooms and a dedicated science classroom. These neighborhoods should also include a dedicated project room for the development of hands-on, project based learning among team members. Although each neighborhood may not require a teacher planning area, teacher planning and work areas should be an integral part of each team, allowing appropriate space for teachers to collaborate on student assignments, progress, and cross-discipline instruction. Although organized for efficient interaction within the team, these teams must share a common connection with other teams and be able to casually and easily integrate themselves within the remaining school environment. This "common connection space" may be a central atrium, expanded corridor, or other open circulation element.

Flexible Project and Instructional Space – Very few modern business or scientific spaces segregate instruction from application. The modern comprehensive middle school and high school environment must be a flexible space which accommodates both instruction and application. The spaces which are dedicated to project based learning should be highly integrated to the remaining academic classrooms and/or environment.

Entry and Exhibit – The interaction of community members and parents, as well as the impression they receive during their visit to the school, is important. Most of the visitors will not have the opportunity to tour throughout all areas of the school, and certainly will not have the opportunity to observe the activities and products of student academic work. The ability for key public areas of the building to exhibit this work, not just statically but also dynamically, is a key component in allowing visitors to experience the learning which is going on throughout the building, without the need to tour deep into the academic zones, which is obviously not practical. The building should place "Education and Student Activity on display for all to absorb". This instills student pride through the exhibit of their work; and can easily be done by providing opportunities for fixed exhibits, video display, or any other practical and functional means. This kind of exhibit opportunity should not be limited to just the displays at entry points accessible to visitors, but should also be inherent within the academic zones, allowing students to present and exhibit their project work to other students.

It is also important that entry areas exhibit the history and flavor of the Town and school department, through the presentation of artifacts, information, and exhibits.

Beyond STEAM – There has been much talk about STEAM and the need to integrate Science, Technology, Engineering, Arts, and Math within the Academic Environment. The modern 21st Century middle school or high school environment goes beyond this, with the goal of integrating these key subjects into real-world business and scientific applications in an effort to help students understand the importance of these topics individually, but to also understand the way they support each other.

Business Community Connections - One of the key components of all successful

comprehensive high schools is their ability to integrate the individual programs with their associated professional business applications in the community. Convenient access to the specialized teams by business and scientific leaders within the community is key to this important collaboration.

Media Distribution and Retrieval – The library media center should be a media distribution and retrieval resource which students can utilize throughout the school environment. The functions of the library media center should not be limited to a single location within the building, as students are retrieving data resources constantly, and limiting this retrieval to a single location within the building is no longer efficient. Research can occur in many places throughout the building, and distributing library resources to locations which encourage in lieu of prohibiting use will make for a more dynamic environment. Media broadcasting, video editing, and video productions are all academic endeavors which may possibly have a link to the media center, but their carefully placement in order to allow them close integration with other disciplines should also be explored.

Educational technology should be integrated seamlessly throughout the educational environment. Campus-wide wireless access is key to creating a flexible environment where students can complete assignments without the confines or boundaries of fixed computer labs. Labs which are dedicated to specific tasks (like video production or video editing, for example) may be required, but this kind of restrictive specific-use space should be created only after thoughtful justification and consideration of a more flexible "create, research, and explore" environment that provides opportunity for data based activities to be completed in any classroom, or in any part of the building.

Socialization and Learning – Social skills and the need to communicate outside of the project/ instructional environment is a key element in promoting positive student development. Students must have the opportunity to socialize with their peers without being confined to the traditional restrictions of a "Cafeteria" where students are herded into a space and directed to function in a stereotypical way. Schools where social dining is distributed throughout the school environment with less restrictions and/or boundaries have proven to promote significantly more student collaboration while simultaneously reducing discipline problems. The student dining area can also play a significant role in parent and community interaction with the school, by providing flexible space which supports presentations, programs, and events. It can serve as one of the primary social hubs of not only the school, but also the entire Abington community.

The School as a Business Incubator — There are many important elements in creating a successful school environment where project-based activity is visually and physically integrated into the core of the school while simultaneously opening themselves to community involvement. It requires re-thinking the "Core" or "Commons" of the school, the definition of "Entry", and all of the necessary aspects of security. The school must operate very much like a business incubator, promoting the necessary collaboration while simultaneously creating the necessary boundaries for staff, administrators, parents, and students.

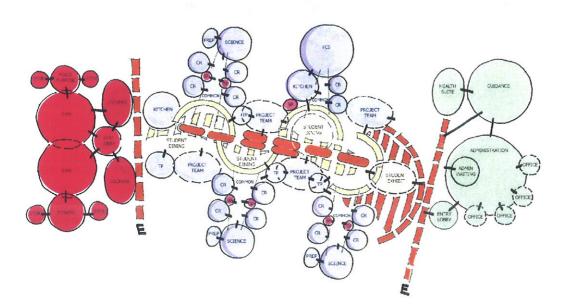
Indoor/Outdoor Connections – The connection of indoor and outdoor spaces is important to creating a vibrant and energized educational environment. Students can become more engaged in utilizing outdoor space if an effort is made to insure the appropriate visual and physical connection. Outdoor space can go beyond recreational playfield use and can provide project space, social space, classrooms, study areas, and other support areas for the educational environment. It has a natural integration to many sciences, and should not be ignored as part of a 21st Century educational environment.

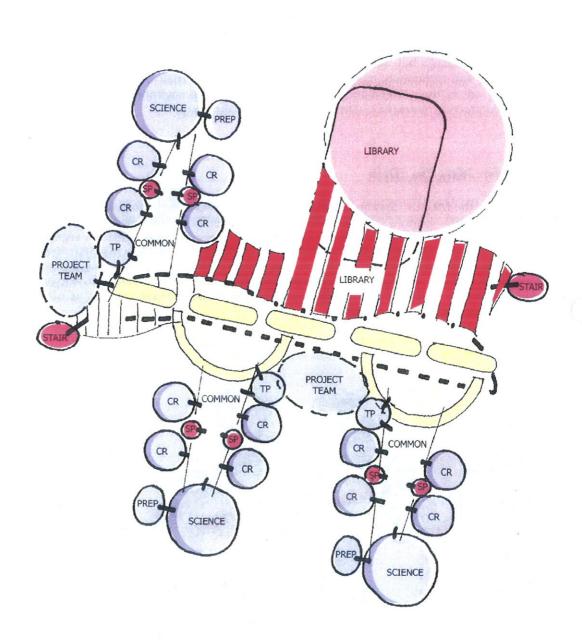
Learning Beyond the School Day - As students become involved in more activities, the time they spend on the academic campus expands. These activities include music, performance, athletics, research, science, academics, and more. Many students study after school as they await upcoming practices, performance or activities which involve them or their friends. Providing appropriate spaces for such activities is a key component of the 21st Century academic environment.

Community Use - In small towns like Abington, the schools truly become the center of community use. Gymnasiums, performance theaters, lecture halls, media labs, etc. all become a highly utilized community and educational resource. These facilities are not "extras" to be added if funding allows, but are inherent resources that will serve the student, teachers, administrators, and community members for decades to come. Their careful planning and inclusion, as well as their integration into the community-wide environment, is critical to supporting community interaction with the educational community.

SESSION 5 - May 29, 2013

Subsequent to the May 16th session, the design team combined all of the concepts and ideas generated in session 4 into a single collective diagram intended to allow all participants to begin to consider how all of the various program components could work successfully together, while simultaneously maintaining the critical characteristics of the individual program areas. Although only intended to be a diagram, it was the first opportunity for programming participants to consider and discuss a diagram which resembled a floor plan. Participants included the faculty, staff, and administration of Abington Public Schools, as well as other interested parties and the design team.

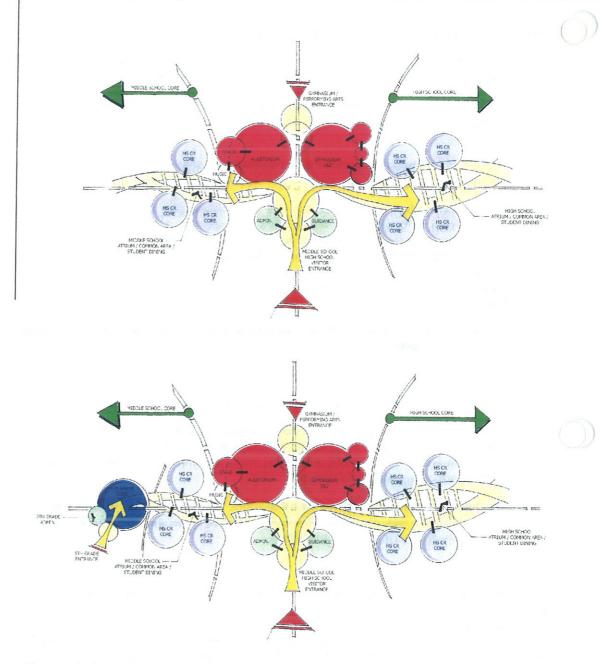




Some of the key concepts which evolved from the discussion are as follows:

- Both the middle school and the high school remain committed to breaking down the student populations into groups or teams of approximately 125 students.
- At the high school level, there remains a need to have close physical ties between science labs even if these labs are going to be distributed throughout the groups/ teams
- There is an understanding that the out-dated traditional approach to departmental organization is no longer effective in a 21st Century learning environment.
- The library/media center is perhaps the most challenging space as technology is moving from a "book based" media retrieval system to a "data based" approach. There is no longer a need for large volumes of hardcopy books; however, the role of the library media center within the learning environment remains significant and prominent. There was much discussion about how the library/media center and its respective functions and spaces should be located and/or distributed throughout the building.
- The importance of student exhibit space throughout the educational environment was discussed at length.
- The importance of "Entry and Control" was discussed at length.
- Participants discussed the values of visual connections between multiple floor levels.
- The role of student dining and its distribution within a 21st Century learning environment
 was discussed at length. Participants agreed that some blending of student areas,
 circulation areas, exhibit areas, and dining areas could be highly effective under the
 appropriate organization and control.
- The need for separation between after-hours "public use" spaces and the core academic areas was discussed. The public spaces were identified to include the gymnasium and performing arts facilities.

The second part of session 5 was organized to facilitate a discussion about a co-located middle/high school, as this will likely be one of the specific options that would address many of Abington's current challenges. Participants were encouraged to provide input and critique on a diagram that outlined some of the functional challenges and opportunities which lie within a co-located school, combining the middle and high school populations.



After much discussion it was generally agreed that:

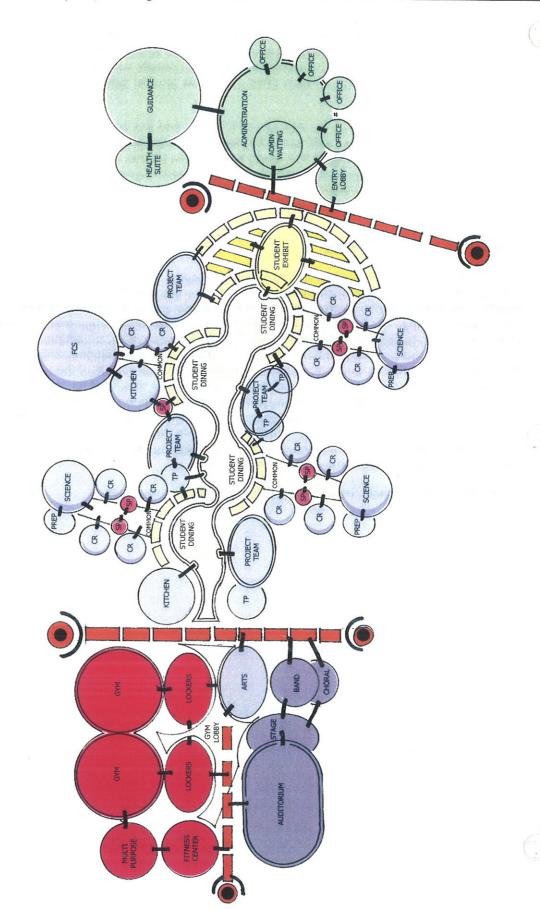
• Grades 5 through 12 could easily co-exist within an appropriately designed and separated facility. Combining these populations would provide many inherent educational benefits to all students. For example, 5th through 8th grade students could have access to enhanced amenities such as a performance auditorium, video production studio, and many more academic programs than they would have in a stand-alone middle school. Additionally, by adding the 5-8 population to a proposed facility, justification can be made for larger program areas such as auditorium, gymnasium, student dining, etc., that would otherwise be very limited in size due to the relatively small high school population.

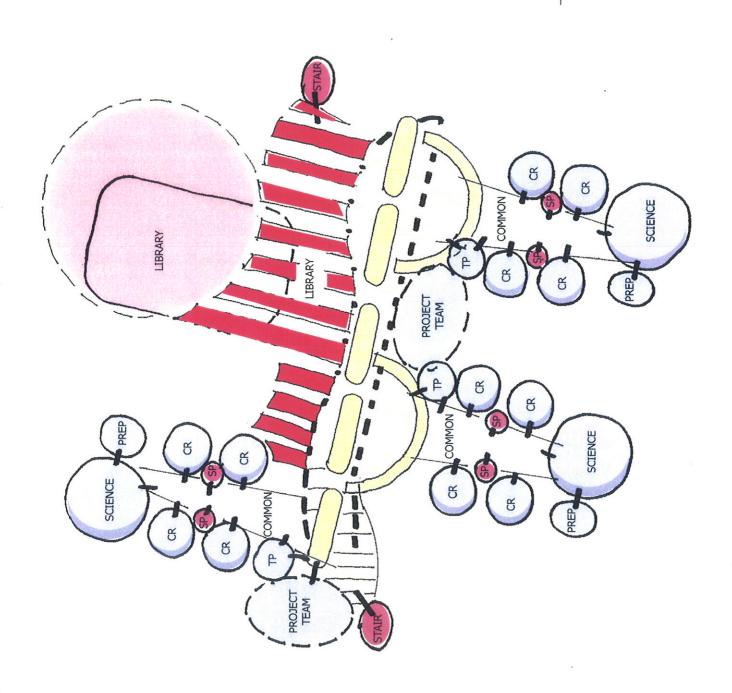
- Most participants felt that horizontal separation between the middle school and the high school would be required in order to achieve success. (Meaning the middle school and the high school would be separated horizontally, not vertically, as stacking the two schools on top of each other might not provide sufficient identities and separation)
- Participants agreed that the inclusion of 5th grade into the middle school would be beneficial and effective, with no need to specifically segregate the 5th grade form the 6-8 students. Combining all four grade levels would expand program opportunities for all, and would provide a sufficient middle school population for teaming and organizing in a true modern middle school environment.

SESSION 6 – June 13, 2013

The Bubble Diagrams presented in session 5 were revised to reflect some of the input and conversation that evolved through the session, and were prepared for presentation to the Building Committee. All those attending session 5 were also encouraged to attend session 6, with many attending. The Building Committee generally reiterated and supported the ideas, concepts, and strategies that had evolved to date, with the most significant addition being a discussion about the increased student use of the facilities outside of traditional school hours. Participants agreed that as students are involved in more activities outside of the school day, they are completing homework and socializing with friends as they wait for their specific activities or interest. For example, students currently congregate in the gym lobby completing homework as they wait for their scheduled practices to begin or they wait for other friends to complete their scheduled activities. The creation of safe, secure, and thoughtful indoor/outdoor spaces which support this kind of 21st Century learning, performing, practicing, and socialization is vital to a successful school environment.

The following pages include the revised diagrams presented in session 6:





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1	Major Milestones Timeline
2	Facilities Evaluation
Site Evaluations Summary	
4	Educational Visioning Summary Document
5 Educational Programming Document	
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

abington public schools educational program



ABINGTON PUBLIC SCHOOLS

"The mission of the Abington Public Schools is to provide all students with relevant, challenging educational experiences to prepare them to be engaged, responsible citizens and members of the global community."

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MODULE 3: PRELIMINARY DESIGN PROGRAM 1.2 EDUCATION PROGRAM

1. OVERVIEW

Mission:

The mission of the Abington Public Schools is to provide all students with challenging educational experiences necessary to reach their full potential and become informed, responsible citizens. The mission is supported by several guiding principles that include: that all decisions are made in the best interests of students, that all students can be successful; the belief in fostering the physical, intellectual, social, emotional, and artistic development of students; ensuring a safe, supportive and equitable learning environment; the realization that successful experiences build self-confidence, perseverance, and self-esteem; and that reasonable rules of behavior are necessary to foster the development of self-discipline and personal responsibility. The guiding principles also include that education is a shared responsibility among home, school, and community; realizing the importance of a culture of shared decision making, collegiality, and civility; that professional development is essential for effective instruction and improved student performance: the need for a cyclical and focused process of curriculum review and update; and the use of technology to enhance teaching and learning.

Current and Proposed Education Program:

The current and proposed Educational Program for Abington's Schools has been summarized by the Educational Committee on the following pages. The current program reflects limitations imposed by existing school facilities that have traditionally served Abington's educational needs. The District looks forward to developing a physical setting that will support the proposed educational initiatives, simplifying education delivery, and making the program easier and more cost effective to administer and operate. The education program as further discussed below incorporates the most current District goals, Strategic Plan, and School Improvement Plans.

2. GRADE AND SCHOOL CONFIGURATION

Current:

The Abington Public Schools is a Pre-Kindergarten to Grade 12 district with an approximate enrollment of 2,100 students. The District includes three (3) elementary schools, one (1) middle school, and one (1) high school as follows:

- Center School serving Pre-Kindergarten and Kindergarten with offerings for Kindergarten that include three (3) sections of full-day tuition and four (4) sections of half-day.
 - o Pre-Kindergarten: 57 students
 - o Kindergarten: 133 student
- Beaver Brook Elementary School serving Grades 1-4 with enrollment of 685 students.
- Woodsdale School serving Grades 5-6 with enrollment of 313 students.

The Abington Public School System is committed to ensuring that all of its programs and facilities are accessible to all members of the public. We do not discriminate on the basis of age, color, disability, national origin, race, religion, sex, gender identity or sexual orientation. The contents of all Abington Public Schools publications are available upon request in language other than English.

- Frolio Middle School serving Grades 7-8 with enrollment of 344 students.
- Abington High School serving Grades 9-12 with enrollment of 498 students.

The current school assignment and grade configuration are based largely on the District's efforts to consolidate operations and to work within the restrictions imposed by the physical layout and limited size of educational facilities throughout the Town space that is currently available. The existing buildings and the resulting grade level configurations do not conform to the desired configurations, but instead represent the best possible response under the given conditions. This response does not necessarily provide the best educational program. For example, having only 344 students (Grades 7 and 8) in a middle school environment greatly limits the number of program offerings and requires that staff shared by other grade levels be constantly traveling back-and-forth between schools. Eliminating this obstacle would result in greater efficiencies and more educational opportunities for students, allowing staff to remain in a single building and spend more time collaborating with students and fellow teachers. Additionally the current available buildings do not include suitable space or configurations to support teacher collaboration, flexible student groupings, presentation space, small group instruction, testing, tutoring, or project-based learning environments that can easily integrate into the regular classroom activities. The Frolio Middle School also presents a building that was constructed in 1937, a time when traffic, vehicle access, parking, universal accessibility, school meal programs, and modern teaching principles were never considered during its development. Although the school is eighty (80) years old and has since received limited improvements, the school is in good condition; however, classrooms are grossly undersized and room layouts and adjacencies are not conducive to 21st Century educational strategies. Facilities, infrastructure and systems, services, and access do not fit the needs of modern educational practices and are now well beyond their intended life expectancy

Proposed:

Options considered to improve facilities and program services, and to promote operational efficiencies, include facilities to support 665 students in Grades 5-8, 495 students in Grades 6-8, 945 students in Grades 6-12, and 1.105 students in Grades 5-12. These configurations would allow the grades to be clustered and allow staff, now separated in multiple buildings and spending time traveling between buildings, to work in vertical teams giving them more time to spend on teacher collaboration and student instruction, helping to improve student achievement. .Core student support services, such as language, reading/math skills, therapy, psychological and nursing, would also work more efficiently within a single school structure, maintaining a consistency of staff and support between the various grade levels.

The Abington Building Committee is also investigating the possibility of including the Pre-K Program at Abington High School to provide not only an "experiential learning space" for Pre-K students, but also a vocational component for Abington High School students. High school students would not have to travel outside of the facility in order to participate in these programs, and the number of students who could participate in this highly enrolled program would no longer be limited. Additionally, the options under consideration would improve student transitions, increase parental investment, enhance collegiality, and improve communication/collaboration between staff and families.

3. CLASS SIZE

The Abington Public Schools recognize that class size is an important factor in quality education, and the District does, subject to space availability, staff support, and all other educational considerations, strive to maintain class size conducive to an effective learning atmosphere. The Abington Public Schools have no written class size policy, however it has been a long standing philosophy to prioritize the lowest class sizes at the lowest grades. Class sizes of special education students are compliant with DESE guidelines.

4. SCHOOL SCHEDULING

Current:

The school schedule is established annually by considering lunch and recess needs, specialists availability for physical education/wellness, music, art, and library/media time, uninterrupted blocks of classroom time for literacy, mathematics, professional development of staff, and union-defined preparation and meeting blocks.

The current school scheduling method includes considerations for:

HIGH SCHOOL:

The student school day is from 7:25 a.m. to 1:57 p.m. and consists of seven (7) forty-nine (49) minute periods. Students are offered a total of forty-three (43) one (1)-year long courses and thirty (30) semester courses. Included within the infrastructure are a dedicated business lab, digital art lab, electronic music lab, band and chorus space, and five (5) basic science labs.

The school schedule is programmed through a process of on-line course assignments with teacher recommendations and supplemental student selections completed with guidance counselors. Priority status for class selection is given to seniors, juniors, sophomore and lastly freshmen. Faculty course and class assignments are accomplished with priority given to the scheduling of shared staff and AP classes. Twenty (20) singleton and/or AP classes drive the schedule often squeezing students out of conflicting singletons running at the same time.

MIDDLE SCHOOL:

The student school day is from 7:10 a.m. to 1:44 p.m. and consists of seven (7) forty-nine (49) minute periods. Course and class assignments are accomplished with priority given to schedules of shared and part-time staff. The Follett Aspen Student Information System (Aspen X2) is used to schedule students at grade level based on recommended courses. Placement tests/Grades/Effort/MCAS are used as criteria for placement of students into leveled courses in Grade 8. Grade 7 courses are heterogeneous except for Grade 7 math, which is leveled into Grade 7 accelerated math and Grade 7 math.

Proposed:

The proposed school scheduling method includes considerations for:

HIGH SCHOOL:

Abington High School will continue on-line course recommendations and selections. In addition to the regular school day, we would include an after-school program for both credit recovery and enrichment. The scheduling model should create an alternative day schedule for non-traditional students to begin and end later in the day and a flexible scheduling and hybrid model classes that incorporate on-line learning. The schedule should provide common planning time in the school day for teachers and include advisory time on a regular basis within the school day that would incorporate civic and community service responsibilities and expectations that work toward and conclude with a capstone senior project. A late bus provided for students involved in activities/athletics and alternative days or supports would enhance the program.

MIDDLE SCHOOL:

Aspen X2 is used to schedule students based on an interdisciplinary teaming model. Placement tests/Grades/Effort/MCAS are used as criteria for placement of students into courses. Continue on-line course recommendations and selections. Continue to build common planning time into the school day. Include Advisory Program time on a regular basis within the school day that would incorporate an academic check-in, the character education program and community service projects. We will offer both required courses and electives. Include a late bus for students involved in after school activities and support programs, such as extra teacher help and homework club.

5. TEACHING METHODOLOGY AND STRUCTURE

Current:

Teachers at all of Abington's schools utilize district-approved and teacher-developed curriculum based on the Massachusetts State Curriculum Frameworks and the evolving Common Core Curriculum. Abington has been traditional in its educational values and its teaching methodologies. Recently the school community has engaged in professional development to begin to move to an educational delivery model that is more reflective of the philosophy of the Partnership for 21st Century Skills. The current teaching methodology system employed at the middle and high school levels, due largely because of the physical layout of the buildings, consists of isolated departments that limit the ability to deliver instruction in an interdisciplinary manner.

HIGH SCHOOL:

- Abington High School is a comprehensive high school with both leveled and unleveled courses in traditional disciplines (AP, Level 1, Level 2, Level 3 and unleveled).
- Students must successfully complete 110 credits including four (4) years of English Language Arts, four (4) years of Mathematics, three (3) years of History, three (3) years of Science, four (4) semesters of Physical Education, one (1) semester of Health, and one (1) semester of Critical Thinking and Design.
- Advanced Placement classes in Art, Mathematics, English Language Arts and History
- Dual Enrollment with Bridgewater State University and Massasoit Community College
- Virtual High School on-line learning
- Discipline specific department heads/directors share responsibility with building administrator for the development, review, and implementation of curriculum.
- Committed to Massachusetts Curriculum Frameworks and The Common Core State Standards
- Teachers are assigned five (5) instructional periods. one (1) duty period, and one (1) prep period.

MIDDLE SCHOOL:

Teachers are currently in grade level teams. They will transition to three (3) integrated teams of teachers (effective August 2013) consisting of English, Math, Science, Social Studies, and Special Education: Grade 7, Grades 7/8, and Grade 8. Teachers are assigned five (5) instructional periods, one (1) duty period, and one (1) prep period. The year is divided into trimesters. Shared and part-time grade level teaching staff (Music, Health and Spanish) makes a rotating schedule very challenging and restricts the scheduling process. Discipline specific department heads/directors share responsibility with building administrator for the development, review, and implementation of curriculum.

Proposed:

The options under consideration for the proposed project are all targeted at providing a physical environment which would fully support and maintain the traditional grade, departmental, and team

teaching structure, while affording more opportunities for students and staff to work in a horizontal and vertical interdisciplinary way that fully integrates special needs programming. The vision for teaching and learning utilizes a systemic and diverse repertoire of instructional practices in all classrooms that are research-based, collaborative, and evidence-based (focused on and informed by student learning), that respond to students when they do not learn, by acknowledging a shared responsibility for underperformance, collaboratively diagnosing underlying issues, and prescribing and experimenting with appropriate intervention strategies as a core component of the regular education program, develops and nurtures a culture that, for all members of the community (students and professionals), and promotes and expects continuous learning, embraces respectful discourse as a pathway to growth, and believes that learners of all ages can continue to grow. In order to support and achieve these goals, the proposed school will develop a series of Small Learning Communities (SLCs) or Teams. Because the options available for consideration include multiple grade and enrollment considerations, the program as proposed is organized in a hybrid model that includes supports for a series of SLCs but also maintains opportunities for traditional departmental operations. Additionally, the proposed structure will continue to develop and align to 21st Century Skills.

HIGH SCHOOL:

The current and proposed initiatives include:

In a new or renovated high school, a STEAM organization within the academic environment would be optimal. The integration of the most up-to-date technology should be seamless throughout the facility. Each department or cluster of classrooms should have a common planning/prep/conference space and appropriate office space. Presentation/display spaces should be plentiful throughout the school. Team rooms and project-based learning labs should be incorporated into each cluster or SLC. These spaces should be integrated with the team, but may also serve a dual purpose as specialized vocational instruction spaces.

Each student will be required to fulfill the MassCore minimum graduation requirements. For "struggling students," intervention supports will be available before and after school. The teacher and student day should be flexible enough to support individual programming.

MIDDLE SCHOOL:

The proposed program would include six (6) integrated teams – Grade 5, Grades 5/6. Grade 6, Grade 7, Grades 7/8, Grade 8 – while affording more opportunities for students and staff to work in a horizontal and vertical interdisciplinary way that fully integrates special needs programming. The vision for teaching and learning utilizes a systemic and diverse repertoire of instructional practices in all classrooms that are research-based, collaborative, and evidence-based (focused on and informed by student learning), that responds to students when they do not learn by acknowledging a shared responsibility for underperformance, collaboratively diagnosing underlying issues, and prescribing and experimenting with appropriate intervention strategies as a core component of the regular education program. This structure develops and nurtures a culture where, for all members of the community (students and professionals), continuous learning is promoted and expected. Our structure embraces respectful discourse as a pathway to growth, and believes that learners of all ages can grow. In order to support achievement of these goals, the proposed school will develop a series of Small Learning Communities (SLCs), including such teams as the Special Education Team. We will have a five (5) days per week schedule, with the year based on quarters, and a schedule that permits both the Advisory Program and the Extension (Intervention) Program for all students. There will be an increased use of project-based learning and differentiated

instruction as a result of building structure and available resources. 21st Century Skills will be embedded into the curriculum and will include such skills as (1) analytical, creative thinking and problem-solving: (2) integrity and ethical decision-making; (3) effective multi-modal communication; (4) collaboration, leadership, teamwork and innovation; and (5) student as producer (i.e., initiative, risk-taking).

6. TEACHER PLANNING AND ROOM ASSIGNMENTS

Current:

Teacher planning and room assignments are made in compliance with the Abington Education Association collective bargaining agreement as follows: Space in each classroom for safe storage of personal belongings, instructional materials and supplies, heated employee workrooms containing adequate equipment and supplies to aid in the preparation of instructional materials. Our collective bargaining agreement mandates an appropriately furnished room reserved for the exclusive use of the school staff for faculty dining. Currently, a small teacher dining room is located at the Frolio School and at the High School. The Frolio dining room is undersized to faculty size and must also serve as a teacher work/planning room due to the limited space and facilities within the building. There is no space available for effective teacher collaboration and no space available within the team areas for teacher work or planning. The remote location of the small teacher work area is inefficient and does not promote collaboration among team teachers.

HIGH SCHOOL:

Currently at the High School, the Faculty Lunch Room doubles as planning space with two (2) round tables, two (2) desktop computers, a printer, a telephone, and multiple copy/riso machines. There are five (5) shared departmental office/work spaces with a telephone, computer, and either small table or teacher's desk. Business, Health/PE/Wellness and Guidance do not have any dedicated planning/work space. Classes and teachers are assigned based on available rooms.

Classrooms are not necessarily discipline specific or teacher dedicated. For example, a Health class may be in a math classroom on the third floor, Period One. Semester One and may in addition be in an English classroom, Period Four, Semester Two. Part-time staff and shared staff do not have dedicated classrooms. Numerous courses are scheduled based on specific room availability that limits student opportunities. For example, 21st Century Media and State of the Union cannot run simultaneously because they share the mobile IPAD lab. Electronic Music and Digital Art share a multi-purpose lab with keyboards being stored in a portable metal cabinet. Band and Chorus share the only space that could accommodate more than thirty (30) students and therefore may not run simultaneously. Classroom constraints severely limit the ability of students to opt into these courses.

Academic disciplines are not necessarily in adjacent spaces except for science.

MIDDLE SCHOOL:

Current:

Core subject teachers would ideally be on the same floor, but this is not always possible due to the building's small size and restrictive configuration. Seventh grade teacher classrooms are on the second floor, eighth grade teachers are on the third floor. Specialist teachers are spread throughout building. Both eighth grade Spanish teachers are located on the first floor. Classrooms are not necessarily subject-specific. For example, a math applications teacher uses an English teacher's classroom. Not all faculty members have dedicated space. For example, the .5 Special Education Teacher uses other teacher's rooms for her Academic Support classes. Disciplines are not adjacent to one another. Core grade level teachers have common planning time on a 3x/6 day cycle. Each teacher has one (1) prep period per day.

The Frolio dining room is undersized to faculty size and must also serve as a teacher work/planning room as well as a small group teacher/student room due to the limited space and facilities within the building. There are five (5) (Total) office spaces within the building: one (1) on the second floor for the Principal/Office Secretary, one (1) on the second floor for the Assistant Principal, one (1) on the basement floor for the School Psychologist which is shared with the Speech and Language Pathologist, one (1) on the basement floor next to the kitchen for the Behaviorist, and one (1) on the second floor for the Guidance Counselor.

Proposed:

To further support teacher educational preparations, promote educational collaboration and integration of student services, and strengthen professional development, the new building should provide "flex" spaces in each grade level cluster for teachers to meet in Professional Learning Communities before and after school. These spaces could be used for flexible grouping of students during the work day or teacher leader meetings throughout the year. These spaces should be conducive to collaboration. A teacher dining room shall provide space for employees to have lunch, and further encourage communication and collaboration. Building design shall enable grades to be clustered.

HIGH SCHOOL:

Proposed for Abington High School:

- Dedicated instructional spaces for Band, Chorus, Electronic Music, Media Production, Digital Art
- A modern media center for data retrieval, research, and student support
- A language lab
- Work collaboration and planning space equipped with computers, telephones, scanners, copy machines, printers
- · Culinary Arts space/facilities
- Centralized support services suite
- Special Education service provider space to include a reading lab and testing space
- Modern science labs
- Practice and storage rooms for music
- A fitness room, indoor walking track, health classrooms and gym configured into a wellness wing
- · Every classroom lab/internet ready
- Appropriate AP testing space
- Department offices that include storage and conference areas
- A performance auditorium to support much needed presentation, instructional, performance, and community activities
- Small Learning Communities (SLCs) which support academic teams
- Open circulation and lobby areas which support exhibits of student work

MIDDLE SCHOOL:

Core subject teachers, including foreign language teachers and special education teachers, are located by teams in neighborhoods or pods around a project room, planning room, and teacher offices. The neighborhood will provide a visible and flexible learning environment for each team, as well as provide a space for building greater community and engaging in ongoing collaborative projects. There will be an

open space in the middle which will provide for enough space to hold whole team meetings, or to meet in smaller groups. This space will also provide for the display of student work. These rooms provide window viewing which allows for student use of space without jeopardizing supervision of students. Classrooms will be equipped with adequate storage space and a minimum of at least one (1) interactive whiteboard. Project room will be equipped with movable furniture and some movable walls for team teaching and flexible grouping. All classrooms, project rooms, and planning rooms will have large whiteboard space. All teams, including related arts and science, will have common planning time at least once every other day. All rooms will be equipped with an adequate number of outlets. Each neighborhood includes a public presentation space. Ideally, each neighborhood would have easy access to the outdoors. The Grades 5 and 6 neighborhoods will be located in the same wing with the science classrooms adjoining in order to share materials. The Grades 7 and 8 neighborhoods will be located in the same wing with the science classrooms adjoining as well. The Grades 5/6 neighborhoods and the Grades 7/8 neighborhoods will be in the same building so that teachers, specialist, staff, and instructional space can be shared. Math classes will be next to the science classrooms within each neighborhood. The English and Social Studies classrooms will be adjoining as well. To further support teacher educational preparations, parent-teacher conferencing, promote educational collaboration and integration of student services, and strengthen professional development, the new building will provide "flex" spaces in each classroom neighborhood for teachers to meet in Professional Learning Communities, which will be equipped with computers, telephones, scanners, copy machines, and printers. These spaces could also be used for flexible grouping of students during the work day or teacher leader meetings throughout the year. The neighborhood will also include a reading lab and testing space for special education service providers. A teacher dining room within each pod shall provide space for staff to have lunch, and further encourage communication and collaboration.

Modern Science Labs (one [1] per team) will be located in each classroom neighborhood. The science labs will be equipped with appropriate furniture (demonstration table, workstations, ability to have students work both independently and in cooperative groups) and equipment, including an eye wash center and other safety compliance components.

A Support Staff Suite of offices will include space for the School Psychologist, Special Education Team Chairperson, Behaviorist, and Guidance Counselor, and a dedicated conference room and a dedicated room with built-in file cabinets for student records.

The Support Staff Suite will include a work station with two (2) computers for students to work on school work and vocational research. Space will be available for bookshelves, materials cabinets, and parent resources.

The Administration suite will be located at the building entrance and will include offices for the Principal. Assistant Principal and Office Secretary, teacher mailbox room with copier, scanner and printer, and a kitchenette.

The School Nurse will also be located near the main entrance for easy access for parents and medical personnel/vehicles.

6. PRE-KINDERGARTEN AND SPECIAL EDUCATION

Current:

The Abington Public School Department's Preschool Program is an integrated, language based model, where children with special needs are included in a classroom community with their peers. The

Massachusetts Curriculum Frameworks and Common Core Standards are utilized to provide academic experiences as well as ongoing interactions with adults and other children, allowing for the development of important social, language, and thinking skills. Curriculum areas that are specifically addressed include:

- · Social and emotional development
- Cognitive development
- Language development
- Fine and gross motor development

Children attending the Integrated Preschool with Individual Education Program plans meet specific goals through program participation, behavioral support services based on the principles of applied behavioral analysis, speech and language therapy, occupational therapy and physical therapy as determined by the child's special educational Team.

The Integrated Preschool Program follows the Department of Early Education and Care's approved model of eight (8) regular education students to seven (7) students with special educational needs in each classroom session. Sessions are generally a half-day in duration, however, some students may be determined to require a full day program due to special education needs.

Integrated preschool classrooms are currently located at the Center Elementary School. Specialized services for children identified with Autism Spectrum Disorder (ASD) are offered within the district at specific schools. These programs range from full inclusion to substantially separate programs depending on the need.

Interventions in classrooms are provided by special needs teachers, speech/language pathologists, reading teachers, occupational and physical therapists, behavior specialists, school psychologists, English Language Learning teachers, and paraprofessionals.

Proposed:

It is proposed that consideration be given to moving the Pre-Kindergarten Program to Abington High School. This could provide an early childhood vocational experience for Abington High School students. Additionally, consideration would be made to move the Pre-Kindergarten Program to Beaver Brook Elementary School. Regardless of the location, either would allow for growth in the program. This would both increase and improve the physical space of the program. It would allow for the better integration of technology into the daily practices and routines of the teachers and students. State of the art technology tools for teaching and learning, connectivity and the required electrical service capacities are more available at the Beaver Brook Elementary School. Greatly improved indoor and outdoor physical activity and play spaces are also available at the Beaver Brook Elementary School for the children.

7. KINDERGARTEN

Current:

Three (3) Full day programs with tuition of \$3.050 per student Two (2) Half-day programs

Proposed:

The Abington Public Schools plan to offer universal, full day kindergarten to families and has not done so in the past due to space constraints. The proposed change would move the current kindergarten from the Center School to the Beaver Brook Elementary School where program expansion would be available. Research confirms that a full day kindergarten program provides increased opportunities for learning in a variety of contexts that include independent, small group, and teacher directed activities. Full day kindergarten provides children more time to explore topics in depth and provides for greater continuity of day-to-day activities. Full day reduces transition times and provides more time to closely monitor individual progress and provide the necessary interventions at an earlier age. Children also experience more opportunities to enhance their social learning skills in a nurturing environment.

8. LUNCH PROGRAM

Current:

Abington High School currently houses the Central Kitchen for the district. All preparation and cooking of food product occurs in the Central Kitchen and is then transported to the various schools; however, each school does have adequate facilities to heat, reheat, and serve lunch products. (Each school has, at a minimum heating ovens, stove tops, and refrigeration/freezers.)

Abington High School currently has three (3) lunches, each approximately twenty-five (25) minutes in duration. Students may choose from the hot lunch selection, pizza, salads or a made-to-order wrap/sub sandwich. A-la-carte items are also available in the form of bagels, hot pretzels, ice cream, and various beverages.

Frolio Middle School currently has three (3) lunches, each approximately twenty-two (22) minutes in duration. Students may choose from the hot lunch selection or an alternative selection.

On early release days, brunch is served at the elementary and middle schools, but not at the high school. Each month the menu is developed by the Food Service Director and prepared with an "in-house" staff.

Student participation has seen a 5% to 7% decrease over the last few years which is consistent with the operation of food service programs across the region.

A breakfast program was attempted this year at the Frolio Middle School and Beaver Brook Elementary School. Both schools experienced very minimal participation (less than ten [10] students per day) and the program has therefore been canceled.

Proposed:

The District would continue the operation of a Central Kitchen for the District which will require accommodations for heat, refrigeration, service and cleaning facilities for remote school facilities. Improvements to the High School kitchen would be of considerable interest so that the program may be extended to provide greater selection and options for healthy choices by students. The cafeteria would have a secure and separate entrance for community use. The ability to secure this space for night and community use is very important to the members of the committee. Program design should ensure that two (2) grade levels would be able to be served concurrently. Design and layout shall foster communications between students by ensuring the space design supports furnishings which enable the students to communicate in small groups. Service lines should be designed to not bottleneck students, and ensure they are able to enter the cafeteria, select and purchase their meal, and be seated within a four

(4) to five (5) minute timeframe. This would allow at least a fifteen (15) minute eating period. Design should ensure students with food allergies can be seated, if needed, in a separate defined seating section.

8. TECHNOLOGY

Current:

Abington Public Schools have long committed resources to providing students with a supportive technology program to enhance student learning. Our current lab configuration is often fully utilized on most days, not allowing all students to have equal access to computer resources. Additionally, both the High School, and to a much greater extent the Frolio School, are limited in the inclusion of technology by the dated infrastructure at each building.

HIGH SCHOOL:

Abington High school currently has two (2) multiple purpose computer labs available to any class during the school day; except when Digital Art or Electronic Music are scheduled in those rooms. One (1) dedicated Business lab (thirty [30] seats) was installed two (2) years ago. The Library/Media Center has a thirty (30)-station computer lab. Two (2) mobile labs are used regularly. one (1) mobile I-Pad lab (25). and one (1) mobile Netbook lab (25).

The wireless infrastructure within Abington High School, while improving, is very limited.

MIDDLE SCHOOL

All seventh/eighth grade students receive direct technology instruction in the main computer lab. There is a second lab in media center, which is signed out and used by individual teachers. There is an iPad cart currently equipped with fourteen (14) iPads, signed out by teachers and used in classrooms. There is one (1) set of ActiVotes, a student response system, signed out by teachers and used in classrooms. Almost all classrooms have interactive whiteboards/projectors. There are two (2) computer labs: one (1) primary computer lab used all day for computer classes, and a second lab in the library media center. There are often two (2) classes in the library media center simultaneously, which creates a loud, distracting learning environment.

The wireless infrastructure with Frolio Middle School, while improving, is very limited.

Proposed:

HIGH SCHOOL:

The current and proposed initiatives include:

Abington High School should have state-of-art technology, including a robust wireless infrastructure to support one-to-one computing. Several multipurpose labs with different technology (for example, an Ipad lab, a Microsoft lab, a media production lab) will be designed and built. Specialty lab spaces, such as a Business lab, a Library/Media Center, and a foreign language lab will be available. We would also propose a state of the art performing arts space that would serve as an instructional facility for production.

MIDDLE SCHOOL:

All seventh/eighth grade students will convert to 1:1 computing with a personal device. All classrooms will be equipped with at least one (1) interactive whiteboard, projector, audio amplification system, and student response system. Online curriculum/software will be embedded into the curriculum and will enable students to work at their own pace, allowing for greater differentiation of instruction. Pods of technology will be available in each team neighborhood (planning room and each individual classroom), the library media center, and in common areas throughout the building. Each adult in the building will have a dedicated device in classroom/assigned workspace. Teacher offices will be equipped with phones, fax machine, scanner, and printer. There will be wireless in every class. Ample electrical outlets will be provided where devices may be charged. Science classrooms will be equipped as science labs. There will be a robotics lab. There will be natural lighting throughout building.

8. ART

Current:

HIGH SCHOOL:

Currently. Abington High School has a very robust art program which includes three (3) art rooms, a small art office, and an outside storage trailer. The rooms are in two (2) different areas of the school building. The Drawing and Painting Room (104E), formerly a wood shop, is 1,827 square feet and is used primarily for 2-d art forms. This room also has a four (4)-station computer lab and black and white printer. A very small art office is accessible from this room. The Sculpture Room (103) is 1,080 square feet and is used for 3-d art forms. This room includes an electronic kiln and vent system. The Multimedia Computer lab (101) is 1,080 square feet and is used by art and music departments for instruction in Digital Art and Music. This room includes twenty (20) work stations, three (3) scanners, two (2) laser printers, and one (1) inkjet printer.

All the art rooms have an assortment of utility cabinets, flat files, racks, and lockers for the storage of art supplies, instructional references, and student work. Student work is exhibited in a case in the café lobby and also on an electronic display. Funding limitations have recently impacted the art program. We currently offer the equivalent of eight (8) courses, down from fourteen (14) courses.

MIDDLE SCHOOL:

The Art and Critical Thinking and Design (CTD) programs currently share Room 104 at Frolio Middle School. This room is grossly inadequate, with approximately 850 square feet, basement-style half windows, and a dropped ceiling. Students sit at one (1) of eight (8) tables which can accommodate up to four (4) students: three (3) students are preferable. An L- shaped desk with a teacher computer is located against a wall, and a long counter which contains four (4) student computers/printer is located on the opposite wall. The room has one (1) small sink located in a corner, six (6) built-in cabinets with shelves for CTD projects, and two (2) units of shelves for student art projects. Additionally, there is a closet located in room which is used to store art materials and an assortment of file cabinets and metal flat files used for resource materials. Since the room is used to run two (2) programs, every student who attends Frolio uses the room several times during their two (2) years at the school. With proper planning, the room has been adequate for its intended purpose. However, due to lack of space, adequate storage is always an issue. Three-dimensional projects can only be assigned if they are kept small and the number of students in the class does not exceed twenty-four (24). Still life arrangements cannot be permanently set up in the room because of lack of space. Students in art classes cannot use stand up easels nor do they have the freedom to move around the room without creating a chaotic situation. CTD class lacks a separate area for testing projects and furniture must be rearranged during test days. Projects completed during a trimester or school year is determined by class size. Classes with more than twenty-four (24)

students require using smaller paper since eight (8) tables can only comfortably sit three (3) students. With four (4) students at a table, elbows bump and papers overlap.

Proposed:

HIGH SCHOOL:

In keeping with the suggested graduation requirement of MassCore. Abington High School would likely have a graduation requirement in the arts, necessitating a facility that would include increased student enrollment and course demand.

The new National Core Arts Standards (http://nccas.wikispaces.com) will include Visual Arts, Music, Dance, Theater, and Media Arts. Media Arts is an important new art form category in this framework. The proposed art program could include new cross-disciplinary courses in STEAM (Science, Technology, Engineering, Art, and Math) that target project-based instruction in creative product design, devices, architecture and inventions.

- Cluster the art classes in one (1) area of the building, on the ground floor with outside accessibility.
 Course content boundaries are blurring and workflows in the arts are changing. Students need to have access to different facilities, and also have strong adjacencies with other specialized instructional program areas.
- All art rooms equipped with the state-of-the-art technology infrastructure and instructional tools.
 Rooms need to have secure storage for electronic equipment and general supplies.
- All art rooms equipped with high ceilings, good natural and artificial lighting, cleanable surfaces, increased storage for student work and supplies, display boards, multiple large stainless sinks, and flexible equipment and furniture configuration.
- The Multimedia Computer lab (101) is 1.080 square feet and is used by art and music departments for instruction in Digital Art and Music. This room includes twenty (20) work stations, three (3) scanners, two (2) laser printers, and (1) one inkjet printer.
- All the art rooms have an assortment of utility cabinets, flat files, racks, and lockers for the storage of art supplies, instructional references, and student work.
- Student work is exhibited in a case in the café lobby as well as on an electronic display.
- Custom storage for student's works in progress, portfolios, active supplies, reserve supplies, tools and equipment
- School exhibition spaces and lighting for 2-d, 3-d, and digital art work
- A flexible, combination multimedia performance/presentation area
- Video conferencing for communication and distance learning
- Performance and presentation space
- Seasonal outside open-air structure located in a beautifully landscaped area

Drawing and Painting Courses and Facility.

- * Large sinks with stainless backsplashes and backsplash mounted faucets
- * Include six (6) station computer or laptop lab and color printing capability
- * Windows for natural light
- * Flexible furniture and work spaces

3-D Design Architecture Sculpture Courses and Facility

- * Provide vented ceramic kiln room and storage area separate from classroom.
- * Independent controllable room ventilation
- * 3-d printing station, laser printing

- * Two (2) industrial sink areas with stainless backsplashes, sediment traps and backsplash mounded faucets
- * Furniture, storage, tools, equipment capable supporting a broad range of art materials and techniques

Digital Art

- * Twenty (20) station computer lab customized for graphics, media arts, interactive media, and video production
- * Large format printers
- * Video conferencing for communication and distance learning

STEAM

- * 2-d, 3-d, and laser printing
- * Model/prototype fabrication

CAD

*Arduino with Max/msp for interactive/robotic experiments

MIDDLE SCHOOL:

Proposed for the middle school include:

- Separate spaces for the Art and Critical Thinking and Design Programs
- An art room with adequate built in storage for 2-d, 3-d projects and resource materials
- At least three (3) industrial, stainless sinks located throughout the room as well as a small hand washing sink
- A small, attached, ventilated room to house a kiln
- Large windows to provide natural light
- A wall area for displaying student work in addition to a separate area in the school for additional display space
- State-of-the-art technology including but not limited to a smart board, high capacity color printer, at least six (6) computer work stations for students, scanner and photo/video editing software
- · Furniture which afford flexibility for movement and configuration

8. MUSIC

Current:

HIGH SCHOOL:

Abington High School currently has rehearsal/classroom space for Concert Choir. Concert Band, and Beginner Guitar is shared space often displacing these classes for school assemblies or testing. Because there is little to no storage area, the practice rooms are jammed with materials that are not currently being used, and they are not usable as practice rooms. We currently lack space for the storage of instruments (school owned and student owned).

There is a good sound system for playing examples, and an LCD projector with a large screen for watching performances. There is no permanent white board installed for other teaching opportunities. We also lack a system to record and reproduce student and other performances. The Choral Music Library is located in a closet, and the Instrumental Music Library is in a closet on a different floor.

Courses offered in 2012-2013: Concert Choir, Concert Band, Electronic Music I, Electronic Music II. Beginner Guitar, and Music in Our Lives

MIDDLE SCHOOL:

Two (2) spaces are dedicated to the music program: one (1) band room and one (1) chorus room. Three (3) music teachers teach Periods 1 and 2 only at Frolio. There are two (2) dedicated music spaces with three (3) music teachers who have full and sometimes oversized classes. We have had to combine classes into very large groups in order to provide music to all students in our school. There is no good assembly space in the school. The gym includes the stage, so we must displace gym classes and equipment for assemblies or performances. The gym/auditorium has poor wireless connection, which negatively impacts performances. During the regular schedule, the stage is used for personal fitness equipment and is unavailable for performing arts. We also utilize the cafeteria for larger groups; however, the cafeteria has only sporadic wireless connection and seating that is cramped, undersized and uncomfortable for the larger middle school student and adults. Performing Arts is not part of the curriculum. It is offered as an after school club by volunteer teachers. When they practice on the stage, they must push the personal fitness equipment to the edges and use just the middle of the stage.

Proposed

HIGH SCHOOL:

The following is proposed for Abington High School:

- Fine Arts Wing
- Performance Auditorium with enough seating to hold graduation, should have an orchestra pit, wing space and fly space, scene shop, storage (costume, sets props), dressing rooms, direct outside access for load in/out adequate lighting and sound, band shell, choral risers, grand piano (storage)
- Band Room with Tiered Seating and instrument storage space sound equipment interactive whiteboard
- Choral Rehearsal Room with tiered seating, interactive whiteboard
- Small Hall for meetings, guest lecturers ,performers, sound, LCD and screen
- Electronic Music Lab with computers and keyboards and interactive whiteboard
- Practice Rooms/Sectional Rehearsal Space (Smart Music Program)
- Instrument storage space
- Music Library choral and instrumental
- Acoustical Tile
- High ceilings
- High quality sound and recording technology
- New chairs and music stands
- Mirrored Dance Studio –for dance classes, dance team, winter guard
- Office space for fine arts teachers to include computers, printers, copiers

MIDDLE SCHOOL:

One (1) large space (auditorium with stage) will be dedicated to performances, fairs, band practices, and the like. The space will be equipped with state-of-the-art technology for sound and lighting. There will be a dressing area and storage space behind and next to the stage. Wooden floor on stage. Windows in auditorium are coverable. There will be a green room in the space where filming may be done in

collaboration with the local cable station. There will be additional classrooms for music, band and chorus classes. The classrooms will be large enough to accommodate a large group of students. There will be cages for storing musical instruments and a teacher office.

9. PHYSICAL EDUCATION

Current:

HIGH SCHOOL:

- Required one (1) semester every year Grades 9 12, five (5) days per week
- Two (2) classes (up to sixty [60] students) run simultaneously in a single shared gymnasium divided by a partition. The physical size of the space is very inadequate.
- The fitness room is located on the opposite end of the building.
- Grades 9 and 10 and Grades 11 and 12 are grouped together.
- Full locker rooms with athletic rooms, team rooms, and PE rooms

MIDDLE SCHOOL:

The gym and auditorium (with stage) is one (1) space (gymatorium) with permanent bleachers and a gym floor. Health and physical education classes are offered. (Grade 7 students – sixty [60] days health/physical education; Grade 8 students – thirty [30] days health/physical education) and full locker rooms with changing areas.

Proposed:

HIGH SCHOOL:

- A Wellness wing to include instruction classrooms, a fitness/weight training facility, office, and conference room
- An indoor track, increased gymnasium size, and safe bleacher seating
- Adequate dedicated physical education storage space
- Adequate lockers, showers, and team rooms
- Five (5) tennis courts
- Outdoor bench and bleacher seating

MIDDLE SCHOOL:

Dedicated gymnasium and fitness rooms which adjoin the health classrooms equipped with both team sports equipment and personal training equipment.

Outside basketball court

Changing stalls in both girls' and boys' locker room

9. SPECIAL EDUCATION

Current

In accordance with Chapter 766 of the Massachusetts General Laws, Federal law, and IDEA, Frolio Middle School's and Abington High School's Special Education Program provides services for qualifying

students who are unable to make effective progress within the general education program. Beyond the inclusive specialized education support continuum for students within the general education classroom, services include academic support, inclusion and self-contained classes. The two (2) sub-separate programs at each school provide a continuum of services for students with cognitive and communication disabilities. Specialized services are provided daily at each school as required by Individual Education Plans (IEP), Section 504 Plans or as part of Response to Intervention (RTI) initiatives. The Common Core is implemented utilizing teaching methods that include but are not limited to co-teaching, small group instruction within the classroom, and monitoring of students during large group sessions. Special education staff works closely with students, parents, and general education teachers to monitor student progress and to modify and support academic programs to meet individual student needs.

Currently, Frolio Middle School and Abington High School support programming for students qualifying for supports through an IEP with the following service models:

- Consultation: Special Education and Related Service staff consult with general education staff
 to support access to curriculum within the general education classrooms and programs.
- Inclusion Supports: Students who contend with disabilities are supported within the general education classroom by paraprofessional staff members who work under the direction of general education teachers and consultation from special education teachers.
- Co-Teaching: Students access the general curriculum in classes taught by both a general
 education content area teacher and a special education teacher. These teachers act as equal
 partners within the classroom to support modified curriculum and accommodations as needed.
- Replacement: In rare cases, when general education offerings are not adequate to meet students'
 intensive needs, content area instruction may occur in a setting outside of the general education
 classroom and will be taught by a special education teacher.

Frolio Middle School currently has two (2) academic support classrooms, two (2) small special education offices, and one (1) self-contained life skills program consisting of one (1) classroom. There is no designated space for: conference rooms available for special education meetings, testing rooms, work rooms, private locked storage spaces, and service provider rooms (Speech and Language Pathologists, Occupational Therapists, Physical Therapists, Behavior Specialists, Vision Specialists, Reading Specialists, Adaptive Physical Education, English Language Learner Specialists, etc).

Abington High School currently has three (3) academic support classrooms. two (2) small special education offices, and one (1) self-contained life skills program consisting of two (2) classrooms (including a café area equipped with kitchen, sinks, and a computer area). There is no designated space for: conference rooms available for special education meetings, testing rooms, work rooms, private locked storage spaces, and service provider rooms (Speech and Language Pathologists, Occupational Therapists, Physical Therapists, Behavior Specialists, Vision Specialists, Reading Specialists, Adaptive Physical Education, English Language Learner Specialists, etc).

Local review of special education space indicates that the facilities are antiquated and outdated in many ways. Many of the programs are being provided in spaces not originally identified or intended as special education instructional space. The physical layout of the buildings is not conducive to a comprehensive co-teaching model and would be better suited to a more intimate and clustered classroom structure. Individual classrooms have limited electrical outlets and open wall space. This can be a barrier when assistive devices are needed for support of students' access to the curriculum. Instructional space is lacking in quantity and some special education teachers and service providers have no dedicated office or testing space. There is limited meeting space for Team meetings, department meetings, and lack of

conference space to confer with students, teachers, and parents. There is little to no storage space for assessment and instructional materials or supplies and there is no defined de-escalation space.

MIDDLE SCHOOL:

Would propose to include an Assistive Technology Lab (which could be part of the general education computer lab). The software from each textbook series would be installed on to the computers, along with any other software already licensed by the district (i.e., Kurzweil, Dragonspeak, Read Naturally). It would be a place that would be reserved for academic support classes.

Proposed:

MIDDLE SCHOOL:

The proposed building project will afford the special education program to be an integral part of the school community. Ample classroom space, office space, testing space, meeting space, and de-escalation space will be provided in order to best meet the educational needs of all students. This design will afford more opportunities for students and staff to work horizontally and vertically, and to incorporate interdisciplinary ways to fully integrate special needs programming.

The Frolio Middle School will implement a comprehensive co-teaching service model which will allow students to access the general curriculum in classes taught by both a general education content area teacher and a special education teacher. A centralized academic support technology center for both general and special education students will be created to provide academic support and virtual learning projects. Self-contained programs will be strategically located in areas of the building to best support student access. The Life Skills programs (students with cognitive and communication disabilities) will have a newly designed vocational area, semi-private space with a designated de-escalation area to support a more protected and dignified learning space.

In order to address the growing need for student services, the goal is to expand programming to provide access to Alternative Learning Programs that are more project based and have 21st Century vocational exploration opportunities imbedded in them. In addition, programs for students with language based learning disabilities and significant social emotional disabilities will need to be created. Increased counseling services will need to be expanded to address the increasing need for services in the areas of mental illness and substance abuse. This being said, all special education programs need to be located close enough to content and elective general education programming so that inclusive opportunities can be realized when possible.

Professional office and testing spaces will be designated for related service providers in the areas of: Speech and Language Pathologists. Occupational Therapists. Physical Therapists. Behavior Specialists. Vision Specialists. Reading Specialists. Adaptive Physical Education and English Language Learner Specialists, etc.

Lastly, critical to the success of special education programs and related service providers is the ability to observe students in their school environment. Ideally, two (2)-way mirror observation rooms will provide opportunities for both parents, teachers, and consultants who work closely and carefully with the special education population to observe and learn from one another.

MIDDLE SCHOOL:

The Middle School will include several smaller meeting rooms for tutors and specialists. These rooms may be used for regular teacher/tutor meetings and for small group testing environments. Along with special education teachers, paraeducators and tutors will have shared space in an office with computer access for storing materials, etc.

HIGH SCHOOL:

The proposed building project will afford the special education program to be an integral part of the school community. Ample classroom space, office space, testing space, meeting space, and de-escalation space will be provided in order to best meet the educational needs of all students. This design will afford more opportunities for students and staff to work horizontally and vertically, and to incorporate interdisciplinary ways to fully integrate special needs programming.

Abington High School will continue to support a full continuum of services for students until graduation or for students who are eligible to continue their education until they reach age 22. The continuation of a comprehensive co-teaching service model would allow students to access the general curriculum in classes taught by both a general education content area teacher and a special education teacher. A centralized academic support technology center for both general and special education students will be created to provide academic support and to assist students with credit recovery and college and career readiness projects. Self-contained programs will be strategically located in areas of the building to best support student access. The Life Skills programs (students with cognitive and communication disabilities) will need a newly designed vocational café area, semi-private space with a designated deescalation area to support a more protected and dignified learning space.

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Lastly, critical to the success of special education programs and related service providers is the ability to observe students in their school environment. Ideally, two (2)-way mirror observation rooms will provide opportunities for both parents, teachers, and consultants who work closely and carefully with the special education population to observe and learn from one another.

10. VOCATIONAL EDUCATION

Current:

HIGH SCHOOL:

- Limited to two (2) semester business courses that provide internship or work experience to Grades 11 and 12 students off campus
- The Special Education department provides vocational individual experience for students on IEP's through North River Collaborative

MIDDLE SCHOOL:

A regular classroom is used for our substantially separate program, which includes a significant vocational component.

Proposed:

HIGH SCHOOL:

- Internship opportunities to include transportation
- Flexible programming to support hybrid off-campus training opportunities
- Integrate project team labs and specialized vocational labs for dual purposes
- In-house daycare for children of staff
- Culinary Department, and school restaurant
- · Landscape/grounds maintenance
- Possibility of providing opportunities for high school students to work directly with Pre-K students housed at the high school and part of a Child Care/ Pre-School Vocational Program.

MIDDLE SCHOOL:

A fully equipped vocational classroom complete with a kitchen area.

10. TRANSPORTATION

Mandated Town-Paid Transportation:

Under Massachusetts General Laws, transportation at town expense shall be furnished to all Abington pupils Grades K-6 who live two (2) miles or more from the school they attend. Transportation at town expense is based solely on the student's home address and is only for transportation between the student's home bus stop and the school the student attends. Additionally, transportation shall be provided at town expense for children whose Individualized Education Plan (IEP) requires such transportation or whose physical condition makes such transportation necessary as stated in an IEP.

Non-Mandated Fee-Based Transportation:

The Fee-Based Transportation System provides an option for arranging bus service for students Grades K-6 who live less than two (2) miles from their school and for all students Grades 7-12. There is a provision for a fee waiver. The "Fee Waiver Application Form" must be completed and submitted by July 1st to the Superintendent's Office. This form is available in both the Principal's Office and the Superintendent's Office. Eligibility is subject to the income guidelines and verification. Ridership is not guaranteed as it is dependent on sufficient funding, routing, and available seating.

Two (2) Mile Limit:

The two (2) mile measurement is the shortest vehicular route between the nearest walkway or driveway to the student's residence to the nearest walkway or gateway leading to the front door of the school. If the mileage is in dispute, a "Distance Appeal Form" must be completed and submitted by July 1st to the School Department. This form is available in both the Principal's Office and Superintendent's Office. The distance will be rechecked and a decision made. This decision shall be final. Appeals not properly submitted by July 1st will not be honored. Please note that the shortest vehicular route may change from year to year as new streets open to traffic; therefore, the shortest vehicular route will be based on streets existing as of July 1st of each year. Mileage will not be calculated to or from a daycare provider.

During the month of April students receive a Transportation Packet containing rules and regulations. frequently asked questions, and all pertinent forms. The fee is \$255 per student with a \$510 family cap. The fee is refundable only if the School Department cannot provide the service. Aside from this exception, and because buses must be contracted in advance, the fee is nonrefundable and will be not be prorated in any manner or for any reason. The seat purchased is not transferable to another route. The application and payment in full must be submitted by July 1st. This payment insures that each child is included on the bus list as routes are developed during the summer. Applications and payments received after July 1st will be considered late and will be honored only if space is available and if there is an existing stop on the route.

Subject to the availability of seats and an existing bus stop, applications for children whose parents/guardians are experiencing an emergency situation will be accepted and processed during the school year. Applications submitted under this provision must be accompanied by a written explanation of the nature of the emergency and any supportive documentation requested by the School Department. A committee comprised of the Chairman of the School Committee, the Superintendent of Schools, and a Principal will review, act on such emergency requests and, if approved, set a prorated fee.

Bus Stops and Routing:

Students K-12 are not entitled to street-by-street or door-to-door pick-up and/or delivery. The School Department will establish common neighborhood bus stops. Timing and routing do not allow for additional bus stops even if the bus passes a particular residence. As it is unknown how many buses will be funded, the length of bus routes may be adversely affected. All efforts will be made to schedule bus routes so that no child is riding for more than one (1) hour per trip.

Proposed:

The District plans to continue its transportation program as outlined above but would hope that the following additional components may be added as part of the proposed project and educational program.

- Late bus for students participating in activities/athletics/supports
- Internship busing
- Dedicated off-campus field trip bus

10. FUNCTIONAL AND SPATIAL RELATIONSHIPS AND ADJACENCIES

Current:

HIGH SCHOOL:

Fitness room and gym at opposite ends of the building.

- Department office locations are often floors away from teacher classrooms and/or storage and professional libraries.
- Nurse's office lacks space and privacy.
- Art spaces are a wing apart.
- PKS Music Room is a shared space for all school and town events (bumping Chorus and Band classes
 out of instructional space).
- Electronic Music lab has <u>portable</u> keyboards to set up, take down and store everyday (no dedicated space) in a common lab.
- Scene shop and storage is in the high school building (or in containers outside) and play production is at the Frolio Middle School.
- Faculty Break Room is on the opposite end of the building from the cafeteria
- All support services are scattered throughout the building based on available space per period each
 year.
- AP testing is done off campus or in PKS Music Room displacing Chorus and Band instruction.

MIDDLE SCHOOL:

The building consists of three (3) floors, designed in a rectangular formation.

First Floor:

The cafeteria, music rooms, foreign language, health classroom, and dual use conference room/teacher lunch room are located on the first floor. (The teacher's lounge is also used as a teaching space by the specialized reading tutors and the speech and language pathologist.) There are classrooms adjacent to the cafeteria. The first floor gives one the sense of being in the basement, as it is partially underground.

Second Floor:

The building's main entrance, administration, nurse, guidance, gym/auditorium. Grade 7 special education and Grade 7 core teacher classrooms are located are located on the second floor.

Third Floor.

The Grade 8 classrooms, Grade 8 special education, library, and computer lab are located on the third floor.

Proposed:

The Educational Visioning sessions held in April, May, and June of 2013 provided an opportunity for faculty, staff, administrators, building committee members, and community members to discuss many aspects of the proposed educational environment. These sessions are documented in the Summary of the Educational Visioning. Some of the key proposals regarding functional and spatial relationships, as well as key adjacencies are summarized below. They apply to both the middle school and high school environments, and could be extremely successful in a combined 5 through 12 co-located schools environment:

Integration of Topics and Teams – The old traditional approach of segregating subjects by department is detrimental to cross discipline instruction within the educational environment. In order for teachers to be able to facilitate the blending of multiple disciplines of academic instruction, teams must be organized to include multiple subject classrooms into a "Teaching Neighborhood", which includes four (4) general classrooms and a dedicated science classroom. These neighborhoods should also include a dedicated project room, for the development of hands-on, project based learning among team members. Although each neighborhood may not require a teacher planning area, teacher planning and work areas should be an integral part of each team, allowing appropriate space for teachers to collaborate on student assignments.

progress, and cross-discipline instruction. Although organized for efficient interaction within the team, these teams must share a common connection with other teams and be able to casually and easily integrate themselves within the remaining school environment. This "common connection space" may be a central atrium, expanded corridor, or other open circulation element. This concept of neighborhoods applies to both the middle school and the high school. Middle school neighborhoods can be further refined to group 5/6 neighborhoods and 7/8 neighborhoods, creating two schools (a 5/6 school and a 7/8 school) within the same middle school.

Flexible Project and Instructional Space – very few modern business or scientific spaces segregate instruction from application. The modern comprehensive middle school and high school environment must be a flexible space which accommodates both instruction and application. The spaces which are dedicated to project based learning should be highly integrated to the remaining academic classrooms and/or environment.

Entry and Exhibit – The interaction of community members and parents, as well as the impression they receive during their visit to the school is important. Most of the visitors will not have the opportunity to tour throughout all areas of the school, and certainly will not have the opportunity to observe the activities and products of student academic work. The ability for key public areas of the building to exhibit this work, not just statically but also dynamically, is a key component in allowing visitors to experience the learning which is going on throughout the building, without the need to tour deep into the academic zones, which is obviously not practical. The building should place "Education and Student Activity on display for all to absorb". This instills student pride through the exhibit of their work; and can easily be done by providing opportunities for fixed exhibits, video display, or any other practical and functional means. This kind of exhibit opportunity should not be limited to just the displays at entry points accessible to visitors, but should also be inherent within the academic zones, allowing students to present and exhibit their project work to other students. Lockers should be removed from hallways so that these spaces are available to put student work and student activities on display.

It is also important that entry areas exhibit the history and flavor of the Town and school department, through the presentation of artifacts, information, and exhibits.

Beyond STEAM – There has been much talk about STEAM and the need to integrate Science. Technology, Engineering, Arts, and Math within the Academic Environment. The modern 21st Century middle school or high school environments go beyond this, with the goal of integrating these key subjects into real-world business and scientific applications in an effort to help students understand the importance of these topics individually, but to also understand the way they support each other.

Business Community Connections – One of the key components of all successful comprehensive high schools is their ability to integrate the individual programs with their associated professional business applications in the community. Convenient access to the specialized teams by business and scientific leaders within the community is key to this important collaboration. Teacher collaboration areas are also critical to a strong educational environment, with such spaces closely integrated into the academic environment and include the necessary business tools to allow teachers to work, plan, and collaborate.

Media Distribution and Retrieval – The library media center should be a media distribution and retrieval resource which students can utilize throughout the school environment. The functions of the library media center should not be limited to a single location within the building, as students are retrieving data resources constantly, and limiting this retrieval to a single location within the building is no longer efficient. Research can occur any many places throughout the building, and distributing library resources to locations which encourage in lieu of prohibiting use will make for a more dynamic environment. Media broadcasting, video editing, and video productions are all academic endeavors

which may possibly have a link to the media center, but their carefully placement in order to allow them close integration with other disciplines should also be explored.

Educational technology should be integrated seamlessly throughout the educational environment. Campus-wide wireless access is key to creating a flexible environment where students can complete assignments without the confines or boundaries of a fixed computer lab. Labs which are dedicated to specific tasks (like video production or video editing, for example) may be required, but this kind of restrictive specific use space should be created only after thoughtful justification and consideration of a more flexible "Create, research, and explore" environment that provides opportunity for data based activities to be completed in any classroom, or in any part of the building.

Socialization and Learning – Social skills and the need to communicate outside of the project/instructional environment is a key element in promoting positive student development. Students must have the opportunity to socialize with their peers without being confined to the traditional restrictions of a "Cafeteria" where students are herded into a space and directed to function in a stereotypical way. Schools where social dining is distributed throughout the school environment with less restrictions and/or boundaries have proven to promote significantly more student collaboration while simultaneously reducing discipline problems. The student dining area can also play a significant role in parent and community interaction with the school, by providing flexible space which supports presentations, programs, and events. It can serve as one of the primary social hubs of not only the school, but also the entire Abington community.

The School as a Business Incubator – There are many important elements in creating a successful school environment where project-based activity is visually and physically integrated into the core of the school while simultaneously opening themselves to community involvement. It requires re-thinking the "Core" or "Commons" of the school, the definition of "Entry", and all of the necessary aspects of security. The school must operate very much like a business incubator, promoting the necessary collaboration while simultaneously creating the necessary boundaries for staff, administrators, parents, and students.

Indoor/Outdoor Connections – The connection of indoor and outdoor spaces is important to creating a vibrant and energized educational environment. Students can become more engaged in utilizing outdoor space if an effort is made to insure the appropriate visual and physical connection. Outdoor space can be used beyond recreational playfield use and can provide project space, social space, classrooms, study areas, and other support areas for the educational environment. It has a natural integration to many sciences, and should not be ignored as part of a 21st Century educational environment. Such space shall include but not be limited to dining space, study and research areas, student exhibit areas, social areas, art classrooms, and a greenhouse or green roof.

Learning Beyond the School Day - As students become involved in more activities, the time they spend on the academic campus has expanded. These activities include music, performance, athletics, research, science, academics, and more. Many students study after school as they await upcoming practices, performance or activities which involve them or their friends. Providing appropriate spaces for such activities is a key component of the 21st Century academic environment.

Health/Wellness – As more focus is now placed on the mental and physical development of the "whole person" it is critical that key fitness, wellness, and medical facilities be provided within the school environment. Health/wellness classrooms should be adjacent to the gymnasium and should have dedicated equipment. Health services should include multiple rooms for triaging students/staff, including space for sick/well waiting. Appropriate storage, beds, restrooms, seating, and other amenities should be provided.

Community Use - In small towns like Abington, the schools truly become the center of community use. Gymnasiums, performance theaters, lecture halls, media labs, etc. all become a highly utilized community and educational resource. These facilities are not "extras" to be added if funding allows, but are inherent resources that will serve the student, teachers, administrators, and community members for decades to come. Their careful planning and inclusion, as well as their integration into the community-wide environment are critical to supporting community interaction with the educational community.

SECURITY AND VISUAL ACCESS REQUIREMENTS CURRENT

Security Posture:

- 1. Access Control System. All exterior doors are lockable, and some are electrified to be locked and unlocked by the access control system. Doors that do not have electrified door hardware are locked and unlocked by keys. Typically there are three (3) sets of main entry doors; all are electrified. The outermost doors are planned to be push pull and unlocked during school hours. They have a card reader if having these doors locked at all times is desired. The inner set of the three (3) doors is planned to always be locked, except for drop-off and pick-up times, where it is planned to be scheduled locked and unlocked during specific times by the access control system. This set of doors has a card reader as well. There is a video entry station at these inner doors, to allow administrative staff to buzz people past them to enter the administrative area. The third set of doors past the administrative area is planned to be locked in a similar fashion as the inner set. Panic buttons, which can trigger a lockdown event in access control (examples of what a lockdown event can trigger are the presentation of a PA announcement, dialing 911, locking all unlocked electrified doors, disabling card readers below a certain access level, sending email alerts, etc.). are typically located in the following areas: administration: Principal's office: certain secretarial staff: SRO office: custodian's office: assistant principal's office. It is important to note that shooting through doors with glass can allow someone to bypass locked doors. Stairwell doors can be pulled off mag holders and programmed locked by access control, securing floors two (2) and three (3). Card access will allow access to floors two (2) and three (3), unless only specific cards are programmed to function during a lockdown. Please note, activation of the fire alarm system will de-energize these stairwell doors for fire safety and they will become unlocked. Exterior doors DO NOT become unlocked upon fire alarm activation. Depending on the IPTV system for the school, it is planned that a lockdown condition in access control shall trigger the IPTV system to turn on all projectors and televisions in the school and present a video file for lockdown purposes. This file will be generated by the owner. and can contain anything deemed appropriate by the owner (lock down procedures, steps to follow. etc.). Please note, this is not to be relied upon as an emergency notification system, but as another means of disseminating information as fast as possible to staff and students.
- 2. Intrusion Detection System. The intrusion detection system is the burglar alarm system that is armed when the building is unoccupied. This system includes motion detectors in every room on the first floor with windows, door contacts on every exterior door, and door contacts on every interior door shown on the drawings (stairwells, and any room with a card reader). The intrusion system is programmed to dial the central office when an alarm condition is detected, either by a motion detector

or door being forced open. Panic buttons in the administrative area can be programmed to have the intrusion system dial 911 in an emergency during occupied times for lockdown purposes if desired.

- 3. CCTV System. Cameras are placed around the exterior of the building, the parking lots, hallways, stairwells, the administrative area, café, auditorium, courtyard, gym, lecture hall, library, any alternate HS area, fitness room and gym track area, the ball fields, and all road entrances to the property. A camera is placed on all entry doors into the building. A forced door alarm will call up the video of a camera assigned to cover the door at the security station PC.
- 4. A bi-directional amplifier and antenna system will be installed for police and fire radios to function within the building without interruption.

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12	Review of Major Milestones

Introduction project background

Town of Abington

The Town of Abington is a small residential town bordering the Cities of Brockton and Weymouth and the Towns of Rockland, Holbrook, Whitman, and Hanson. The Town is comprised of mainly residential neighborhoods, with a few big box stores and privately owned businesses.

Project History

On or about October 27, 2006, the Owner submitted a Statement of Interest (Appendix A)to the MSBA for Frolio Middle School. At the July 25, 2012 Board of Directors meeting, the MSBA Board voted to issue an invitation (Appendix B) to the Owner to conduct a feasibility study for this Statement of Interest to identify and study possible solutions and, through a collaborative process with the MSBA, reach a mutually-agreed upon solution.

The following are items noted in the Statement of Interest that the Town of Abington would like to address in this study:

- Elimination of existing severe overcrowding.
- Prevention of the loss of accreditation.
- Replacement, renovation or modernization of the heating system in a schoolhouse to increase energy conservation and decrease energy related costs in the schoolhouse.

During the Spring 2012 Annual Town meeting, and subsequent ballot vote, the Town has secured the funding to complete, in conjunction with the MSBA, this Feasibility Study.

In January of 2013 the Town of Abington selected Ai3 Architects, LLC to conduct a feasibility study of the existing Abington Public Schools. The study was conducted with specific emphasis on assessing the current physical conditions of the existing Frolio Middle School and Abington High School.

The specific goals of this study include a review of the problems identified in the Statement of Interest at the Frolio Middle School and also considers and incorporates grade configurations, facility student populations, operational consolidation, and prospective site locations in development of alternatives and schemes.

The Town and MSBA have agreed on the following student enrollments (Appendix C) for the potential project:

- 665 students in grades 5-8
- 495 students in grades 6-8
- 945 students grade 6-12

The Town of Abington has established a School Building Committee for this project. The Committee consists of 22 members including Government Officials, School District Administrators, School Committee members and Town of Abington residents.

abington public schools

The Abington Public Schools is a PreK-12 district with approximately 2,100 students. Five school buildings are currently being occupied as schools and one building houses the Abington Public Schools Central Office.

Abington High School

Grades 9-12, approximately 550 students 111,831 square feet Constructed 1962

Woodsdale Elementary School

Grades 5-6, 325 students 56,000 square feet Constructed 1958

Center School

Grades PreK-K, 165 students 19,800 square feet Constructed 1939

North School

Central Offices 19,800 square feet Constructed 1939

Frolio Middle School

Grades 7-8, 350 students 51,729 square feet Constructed in 1937

Beaver Brook Elementary School

Grades 1-4, 650 students 67,000 square feet Constructed 1952 with classroom and gymnasium additions 1960

The newest school in the Abington Public School system is the Abington High School at 51 years old. Minor capital projects have been completed within the past 10 years, but have been limited to less than \$3.0 million in critical boiler, roof, or window replacement projects. In 2003 a Facility Master Plan was completed which identified numerous facility and educational deficiencies across the entire Abington Public School system. Deficiencies within the 50+ year old facilities were extensive and included but were not limited to lack of educational program opportunities, undersized classrooms and program areas, insufficient accommodations for special education, inadequate student and teacher technology, lack of security systems and controls, inadequate life safety systems, presence of hazardous materials, lack of accessibility (Handicap access), non-compliance with current building codes, inefficient and deteriorated building envelopes, and grossly out-dated and poorly functioning heating, ventilation, plumbing, and electrical systems. At the time of the report, the Building Committee was eager to address these deficiencies but unfortunately the subsequent moratorium on Massachusetts school construction halted the Town and the Committee's ability to address the significant needs inherent in the school facilities. Much time and energy was invested in the 2003 effort, and the inability to address the extensive list of challenges identified in the 2003 Master Plan for many years due to the moratorium caused a significant loss of momentum within the Town.





summary of existing school facilities

Frolio Middle School

The existing Frolio Middle School is located on a very compressed 2.0 acre site surrounded by privately owned property and playfields. This includes privately owned property and recreational fields that have dedicated use and are not available for school expansion or development. The school site is located at 1071 Washington Street, Abington, MA and contains the existing 51,729 s.f school building, insufficient parking, no area for drop-off or pick-up (occurs on street), and minimal landscape areas. The Frolio School was originally constructed in 1937, with most of the 75+ year-old original building, layout, and features still existing on three levels; including a basement level. Classrooms are grossly undersized, and the building's masonry load bearing structural system combined with modern code requirements make modifications to its configuration cost-prohibitive. The limited occupancy (due to building size) of only two grade levels on multiple floors also restricts its use as a modern middle school facility. It is identified in all reports as the building with the most deficiencies and restrictions. The school currently has an enrollment of 350 students in grades 7-8. The included reports indicate that it is not practical or cost-effective to renovate/expand this facility.

Abington High School

The existing Abington High School is located on an expansive 41.0 acre parcel in close proximity to Town Hall and the Abington Public Library; and centrally located within the Town. The 50+ year-old-facility has received minimal educational program improvements in its 50 year history, and only limited capital improvements. Its classrooms and many other program areas are undersized, and it lacks most of the educational program elements associated with a 21st Century high school environment. It lacks the necessary configuration, program areas, and support spaces identified throughout the educational visioning process. Capital improvements at this building include new boilers and a window replacement project, but remaining 50-year-old infrastructure systems require immediate attention. The included reports indicate that it may be a possible candidate for renovation and/or expansion.

As a result of reviewing these two existing buildings and the 2003 Facilities Master Plan Study, the Town of Abington and the MSBA (Massachusetts School Building Authority) have agreed that multiple grade configurations (5-8; 6-8; 6-12; etc.) should be considered as part of addressing the significant deficiencies identified at the Frolio Middle School and the Abington High School.

Although the primary focus of the 2013 Feasibility Study and Schematic Design is to address the significant educational and facility deficiencies in grades 5-12, the need to consider options which address Abington's district wide (PreK-12) concerns remains prevalent; and any potential solution for addressing grades 5-12 must not ignore opportunities to address deficiencies across all grade levels; as deficiencies which were identified across all grade levels in the 2003 report remain unresolved today. The primary deficiency at the elementary schools involves overcrowding. Elementary schools containing grades PK through 6th grade have a capacity of 895 students, and an enrollment of 1,140. The elementary schools also lack sufficient space for the expansion of programs such as full-day Kindergarten. Any solution which allows the 5th and 6th grade population to be accommodated at the middle/high school facilities would alleviate elementary school overcrowding and provide for expanded elementary school programs.

The following elementary schools are currently in use in Abington:

Woodsdale Elementary School

Woodsdale Elementary School was identified in the 2003 Master Plan as having sufficient site amenities, parking, and circulation areas. It could continue to serve as a viable elementary school within the Town with continued capital improvements. At the time of the 2003 study, the primary deficiency at the school was severe overcrowding. This has since been resolved by converting the school from a 3-6 elementary to a 5-6 elementary school, thus reducing the school population by half. Unfortunately, the 3rd and 4th grade students that were removed from Woodsdale were transferred to Beaver Brook Elementary, resulting in severe overcrowding there. Woodsdale contains 56,000sf, including 14 general classrooms and the required support spaces, resulting in a capacity of approximately 315 elementary school students. Although some infrastructure improvements will be required as part of a continued maintenance and capital improvements program, the Woodsdale Elementary School could continue to accommodate two elementary school grade levels into the foreseeable future without significant modifications or expansion.

Beaver Brook Elementary School

Beaver Brook Elementary School was identified in the 2003 Master Plan as having sufficient site amenities, parking, and circulation areas. It could continue to serve as a viable elementary school within the Town with continued capital improvements. At the time of the 2003 study it served as the Early Childhood Center and included grades PK-2. In this configuration, its primary deficiency was overcrowding. The facility has now been converted to an elementary school for grades 1-4, but remains severely overcrowded with 650 students. It contains 67,000sf, including 20 general classrooms and the required support spaces, resulting in a total capacity of 460 elementary school students. This means that capacity is currently exceeded by 190 students, the equivalent of an entire grade level. Although some infrastructure improvements will be required as part of a continued maintenance and capital improvements program, the Beaver Brook Elementary School could provide an educationally strong and viable program for three (not the current four) elementary school grade levels into the foreseeable future without significant modifications or expansion.

Center School

Center School was identified in the 2003 Master Plan as being a very small school (11 classrooms) with limited parking and drop-off areas. It was constructed in 1938, contains approximately 19,800 square feet, and has received no comprehensive renovations to date. All major building systems were identified (In 2003) as requiring updating if the school was to remain in use. Many educational deficiencies were identified in the 2003 study, along with a summary of comprehensive needs for the building envelope and interior. At the time of the 2003 Master Plan, the building was serving grades 3-6. Today, the building has more limited role and provides space for approximately 165 Pre-Kindergarten and Kindergarten students. However, it has received minimal improvements and its continued operation as a very small school which needs significant educational and facility improvements makes it a very inefficient resource.

Although the feasibility study and schematic design is targeted at resolving issues at the

Frolio Middle School and the Abington High School, opportunities for solutions which resolve overcrowding and inefficiency within Abington's elementary schools should not be overlooked. The feasibility study includes exploring the possibility of expanding the middle school population to include grade 5, or grades 5 and 6, not only because of the enhancements this could provide to the middle school but also because this could significantly improve the elementary school environment and increase efficiency in facilities operation throughout the Town.

In order to formulate a plan to address Abington's needs, Ai3 Architects LLC proceeded with the following tasks/process:

- Review 2003 Facility Master Plan
- Document detailed existing conditions at the Abington High School and Frolio Middle School
- Conduct a series of Educational Visioning sessions which included our educational consultant (David Stephen with New Vista Design)
- Document available capacity at existing school buildings across all grade levels
- Summarize educational and facility challenges
- Generate options for resolving educational and facility challenges
- Develop costs for each of the options
- Evaluate options based on their proposed cost versus their value in resolving district-wide educational and facility deficiencies

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Proposed Space Summary

Co-Located Middle/High Schools

Proposed 5-12 Co-Located Middle/High School with Pre-Kindergarten

ROOMIYPE	ROOM NFA¹	#OF RMS	
ROOM 1 YPE	ROOM NFA¹	# OF RMS	
			area totals
CORE ACADEMIC SPACES (List classrooms of different sizes separately)	***		10,408
	716 661 693 641		716 661 693
Spanish Classroom Math Classroom Math Classroom Math Classroom	737 735 648 716		737 735 648
Social Studies Geography Classroom History Classroom Health Classroom	693 896 422		693 896 422
Small Group Seminar (20-30 seats) / Resource Science Classroom / Lab Science Classroom	716	2	1,432
Science Classroom Prep Room Team/Project Room	877	1	877
0 - 1			
SPECIAL EDUCATION (List class rooms of different sizes separately) SPEC Classroom	655	1	1,638
SPED Classroom SPED Classroom Self-Contained SPED	512		512
Sell-Contained SPEU Tollet Resource Room Small Group Room / Reading			
ART & MUSIC Art Classroom	000		2,791
Art Vertr Cussicom Art Workroom w/ Storage & kiln Band / Chorus - 100 seats	779		822
Chorus Band/Music Room Music Practice / Ensemble	1,290		1,290
VOCATIONS & TECHNOLOGY Tech Clm (E. G. Drafting, Business)			0
p - (E.G. Consumer ised Lab			
Gymnasium	5.877	-	8,772 5.877
Oym Storeroom Team Room Team	385		385
Closet	102 84 38		102
Health Instructor's Office w/ Shower & Toilet P.E. Office Coach Office	85		85
Locker Rooms - Boys / Girls w/ Toilets Girls Locker Room	1.316		1.316
MEDIA CENTER			1,868
Media Center Keading Koom Computer Tech Lab Library Computer Lab	412		1,456
Osfetorium / Dining	2.009		2.009
Chair / Table / Equipment Storage Kitchen	000	-	000
Warming Kitchen Staff Lurch Room Teacher Lounge	909		909
MEDICAL Medical Suite Toilet			502
Nurses' Office / Waiting Room Examination Room / Resting Sch Peo	187		187
ADMINISTRATION & GUIDANCE General Office / Making Boom Trailed	200		1,195
General Office / Waiting Room / Toilet Teachers Mail and Time Room Duplicating Room			
Copier Records Room Principal's Office of Conference Avea	163		163
Principal's Secretary / Walting Assistant Principal's Office - AP1 Assistant Principal's Office - AP2	199	-	199
Supervisory / Spare Office Conference Room Guidance Office			
Guidance Councelor Office Bahano Office	123		123
Guidance Waling Room Guidance Streeton	131	-	131
Teachers Work Room			72.5
Custodian's Office Custodian Office	181	1	1,374
Boiler Room Custodian's Workshop Custodian's Storage	704	-	704
Recycling Room / Trash Receiving and General Supply Supply Room	489	1	489
Storeroom Network / Telecom Room			
OTHER Other (specify) Storage	102	-	2,286
Storage Storage	87		87
Storage	911		911
Storage	42		42
Total Building Net Floor Area (NFA)			34,895
Proposed Student Capacity / Enrollment Total Building Gross Floor Area (GFA) ²			51,729
Grossing factor (GFANFA)			1.48

ROOM NFA1 ROFRUS	area totals 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ROOM NFA ¹	Now # OF RMS	area totals	ROOM	Total # OF RMS	
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	0				NFA		area totals
	0			31,530			31,530
	0	850	9	5.100	850	9	5,100
	0						
	0	850	9	5,100	850	9	5,100
	0						
	0						
	0	1.200	9	7.200	1.200	9	7.200
	0	80	9	480	80	9	480
	0	850 850	9 9 9	3,450 5,100 5,100	575 850 850	9 9 9	3.450 5.100 5.100
				7,050			7,050
		850	2	4 250	850	9	4 250
		500	000	1.500	500	33.0	1.500
	0		,	1,750	000	7	1,750
		1.200	-	1,200	1,200	-	1.200
		0	- 0	150	0	- 0	0 0
		200	2	400	200	2	400
	0			6,300			6,300
		1.050	9	6,300	1.050	9	6.300
	0			2,400			2,400
		150	0 -	150	150	10	150
							-
		250	-	250	250	-	250
		1.000	2	2.000	1,000	2	2.000
	0	0	0	0	0	0	0
		00	0 0	00	0 0	0	000
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		0	0	0	0	0	0
	0			610			610
		250		250	250		250
		001	2	200	001	2	300
	0	433	-	3,466	433	-	3,466
		100		100	100		100
		200		200	200		200
		125		125	125		125
		150	- -	150	150		150
		350	- 4	350	350	1 4	350
		100		100	100		
		483	- -	483	483		483
	0	150	-	2,140	150	-	2,140
		375	- - -	375	375	- - -	375
		322	-	322	322	1	322
		200		200	200		200
	0			0			0
			-				
	0			55,246			55,246
				82,869			
				1.5			0.00

Abington High School	Ä	Existing Conditions	ons
ROOM TYPE	ROOM NFA ¹	# OF RMS	are
CORE ACADEMIC SPACES		i.	
(List classrooms of different sizes separately)			
Classroom - General	0	0	
Teacher Planning			
Small Group Seminar (20-30 seats)			
Science Classroom / Lab	0	0	
Prep Room			
Central Chemical Storage Rm			
Classroom - English	618	-	
Classroom - English	708	8	
Classroom - English	716	-	

Existing	Existing to Remain/Renovated	onovatod		Now			Total	
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	#OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
		0			23,460			23,460

		TT	1		-	1		
MSBA Guidolines (refer to MSBA Educational Program & Space Standard Guidolines)	Commonts		825.8F mm - 970.5f mm -			3 s85% ut-20 Seatted per day/dudent		
MSBA G ational Prog	area totals	23,410	14,450	1,700	200	5.760	800	200
MSBAEduc	#OF RMS		17	17	-	4	4	-
(refer to	ROOM NFA ¹		850	100	200	1,440	200	200

717 705 705 713 714 717 717 717 717 717 717 717 717 717	4,524 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,69 2,167 2,167 6,85 6,85 6,300 1,008 6,300 1,008 6,300 1,143 1,174	3,156 3,156 3,156 1,214
	- 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
717 708 708 713 710 710 711 717 717 705 705 706 1163 1150 1206 1206 1206 1206 1206 1206 1206 120	706 809 322 140 630 630 706 404 404 106 120 120 120 120 120 120 1289 1289 1289 1289 1289 1289 1289 1289	269 294 140 1 1 068 1 1 068 1 1 1 068 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.277 5.277 1.415 1.415 1.416 1.677 677 677 677 677
Classroom English Classroom - History Classroom - History Classroom - History Classroom - Math Classroom - Foreign Language Classroom - Lab Science Classroom / Lab Science Classroo	SPECIAL EDUCATION Glat classranoms of different sizes separately) Self-Contained SPED Tollet Resource Room Small Group Room Academic Support Co-Op./Life Stells School Paychologist Testing ART & MUSIC ART Classroom SPED ART & MUSIC ART Classroom SPED ART & MUSIC ART Classroom SPED Music Practice Music Practice Music Practice Music Practice Music Practice Music Poach Music Practice Music Poach ART - OL - Lab - ART Studio?	Art Director's Office VOCATIONS & TECHNOLOGY Tech Cirm - (E. G. Consumer, Wood) Tech Cirm - (E. G. Drafting, Business) Tech Cirm - (E. G. Consumer, Wood) School Bank School Bank School Bank School Bank School Bank Opmessium Opmessium Opmessium Opmessium Opmession Locker Rooms - Boys / Girls w/ Toilets Opmessium Locker Rooms - Boys / Girls w/ Toilets Opmession Locker Rooms - Boys / Girls w/ Toilets Analthic Director's Office w/ Shower & Toilet Health Instructor's Office w/ Shower & Toilet Health Class Weight Room Media Center / Reading Room - Library Computer Lab Auditorum Storage Auditorum Storage Auditorum Storage Makke-up / Dressing Rooms	Controls / Lighting / Projection Diama Set Design Chair / Table Storage Casteeria / Student Lounge / Break-out Casteeria / Student Lounge / Break-out Chair / Table Storage Scannbe Saving Area Kitchen Sinf Lurch Room - Teachers Room Greenwave Cafe Medical Suite Tolet Nurses 'Offree / Walting Room / Tolet Teachers Mail and Time Room Internet Mail and Time Room Dupicating Room Records Room Principal's Coffree w/ Conference Area Principal's Coffree w/ Conference Room Ouglearing Tolet Assistant Principal's Giffee - AP-1 Assistant Principal's Gif

1800 3 300 3 300 3 300 5 760 5 760 1 700 4 4 0 30 5 760 5 76	10,126 1,200 1,500 1,500 2,000 2,000 3,000 2,000	6,050 7750 2000 1,100 4,000 3,000 3,650 3,650 3,650	10.763 7,500 1600 36,3 36,3 500 500 500 500 600 600 600 700 700 700 700 700 700 7	3,370 300 100 100 200 200 200 126 450 1450 1450 100 100 100 100 100 100 100 100 100 1
4 4 4 4 4 4 7 0 0				(4)
450 825 825 825 825 826 1440 200 200 200 850 60 60 60 500	1200 1500 1500 1500 200 75 500 3000	750 200 1,100 1,000 1,000 3,000 2,000 5,00 5,00 5,00 5,00 5,00 5,00	7,500 1,600 363 300 2,00 5,00 5,00 6,00 6,00 6,00 1,250 1,250 1,250 1,250 1,00 1,00 1,00 1,00 1,00 1,00 1,00 1,	300 100 200 200 300 125 125 125 120 150 160 160 160 160 160 160 160 160 160 16
1800 3300 3300 3300 5,760 800 1,700 1,700 1,800	10,126 1,200 1,500 1,500 2,000 2,000 3,000	6,050 1,100 1,100 1,100 1,700 3,000 4,000 5,00 1,500 5,00 1,500 5,00 1,500	10,763 7500 1600 363 363 363 600 500 500 600 600 700 700 700 1,250 1,250 100	2.00 3.370 100 100 100 2.00 2.00 125 150 100 100 100 100 100 100 100 100 10
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Storeroom Network / Telecom Room Boiler Room	00*			200	- -	200	200	200	4 2	200 1	200	
Head End Room	328 1	328								-		
OTHER Other (specify)		0		0		0		0			0	
Total Building Net Floor Area (NFA) Proposed Student Capacity / Errollment		79,145		0		101,683		101,683			75,253	922
Total Building Gross Floor Area (GFA) ² Grossing factor (GFANFA)		111,831				152,525		0.00			101.700	Should be 121.910gsf Grossing factor should be 1.62 for 1115 cap
CORF ACADEMIC SPACES - Pra-K		3.700		c		4 400		4 400	L		4 800	
(List classrooms of different sizes separately)								-				
Pre-Kindergarten w/ toilet	4 925	3,700		4	1.100	4,400	4 1.100	0 4.400		1.200 4	4.800	1 100 St. om - 1 300 St. om
ADMINISTRATION & GUIDANCE - Pre-K	400	1,057		0		1,160					1,160	
General Office / Waiting Room / Toilet Teachers' Mail and Time Room	1 225	225		- -	100	100	1 100	-	-	000	300	
Duplicating Room	1 176	176		-	150	150	1 150			1 1	150	
Records Room Principal's Office w/ Conference Area Principal's Secretary / Wating	1 190	190			375 125	375 125	1 375	375		375 125 1	375	
Total Building Net Floor Area (NFA)		118,797	 	0		162,489		162,489			157,952	
Proposed Student Capacity / Enrollment											1,115	7.0
Total Building Gross Floor Area (GFA) ²		163,560				243,734					236,928	
Generaliza factor (OE A AIE A)		1.45				1 6		000			150	Average GF for 1115 middle/high

I hereby certify that all of the information provided in this. Proposed Space Summary is true complete and accurate and except as agreed to my Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architect Firm:

Signature of Principal Architect:

Date:

Individual Room Not Floor Area (NFA)

Total Building Gross Floor Area (GFA)

Architect Cortification

Proposed Space Summary - Co-Located Middle/High Schools

DRAFT

ROOM NFA¹

Proposed 6-12 Co-Located Middle/High School with Pre-Kindergarten

Frolio Jr. High School	Exis	sting Conditic	suo
	ROOM NFA ¹	# OF RMS	area totals
CORE ACADEMIC SPACES		5	10,408
(List classrooms of different sizes separately) Classroom - General English Classroom	716	-	716
English Classroom Spanish Classroom Snanish Classroom	693		693
Math Classroom Math Classroom Math Classroom	735 648 716		735 648
Social Studies Geography Classroom History Classroom	693		693
Health Classroom Small Group Seminar (20-30 seats) / Resource	422	-	422
Science Classroom Science Classroom	716	- 2	1,432
Prep Koom SS/Hist/Geography Team Room			
SPECIAL EDUCATION	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1,638
SPED Classroom	655		512
SPED Classroom Self-Contained SPED Self-Contained SPED Total	471	-	471
Seri-Contained Shell Tollet Resource Room Small Group Room / Reading			
ART & MUSIC			2,791
Art Classroom Art Tech. Classroom Art Workroom w/ Storage & kiln	822	F	822
Band / Chorus - 100 seats Chorus	679	-	679
	1,290	-	1,290
VOCATIONS & TECHNOLOGY Tech Clm (E.G. Drafting, Business)		- A - Y - A	0
HEALTH & PHYSICAL EDUCATION Gymnasium	5.877	-	8,772
Gym Storeroom Team Room	385	-	385
Closet Closet	102	- -	102
Closet Health Instructor's Office w/ Shower & Toilet	38	-	38
P.E. Office Coach Office Locker Boome , Bove / Girle w/ Tailate	219		219
Girls Locker Room Boys Locker Room	1,316		1,316
MEDIA CENTER Media Center / Reading Room			1,868
Computer Tech Lab Library Computer Lab	1,456		1,456
DINING & FOOD SERVICE	2 009	-	4,061
Stage Chair / Table / Equipment Storage	838	-	838
Kitchen Warming Kitchen Staff Luch Room	606	-	606
Teacher Lounge	305	-	305
MeDICAL Medical Suite Toilet	107		502
Examination Room / Resting Sch. Psy.	315	-	315
ADMINISTRATION & GUIDANCE General Office / Waiting Room / Toilet			1,195
Toachers' Mail and Time Room Duplicating Room	46.5		163
Copier Records Room Principal's Office w/ Conference Area	141	-	141
Principal's Secretary / Walting Assistant Principal's Office - AP1	199		140
Supervisory / Spare Office Conference Room			
Guidance Office Guidance Councelor Office	123		123
Behavior Office Read, Spec. Office	174		174
Guidance Waiting Room Guidance Storeroom Taambure, Work Room			
CUSTODIAL & MAINTENANCE			1,374
Custodian's Office Custodian Office Boiler Room	181		181
Custodian's Workshop Custodian's Storage			
Recycling Room / Trash Receiving and General Supply Supply Room	489	1	489
Storeroom Network / Telecom Room			
OTHER Other (specify)			2,286
Storage	102		102
Storage Storage	313	-	313
Storage Storage	79		79
Garago	461	-	461
Total Building Net Floor Area (NFA)			34,895
Proposed Student Capacity / Enrollment			
Total Building Gross Floor Area (GFA) ²			51,729
Grossing factor (GFANFA)			1.48

1	1	9		PROPOS	ED 6-8 Middl	lo School		140	
Column C	Existing	to Romain/Ro	pnovated		Now			Total	
Secondary Seco	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	#OF RMS	area totals
Secondary Seco	Care a	100	0			24,000			24,000
1,200				850	1- 4	3,400	850	t 4	3,400
1,000				850	4	3 400	850	4	3 400
1200				850	4	3.400	850	4	3,400
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Separate				1.200	9	6.000	1,200	9	6,000
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Existing	Existing to Remain/Renovated	enovated		Now			Total	
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
		0			23,460	£		23,460

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495

250 375 265 265 200 200

Abington High School	Exi	Existing Conditions	ions
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals
CORE ACADEMIC SPACES	1		24,321
(List classrooms of different sizes separately)			
Classroom - General	0	0	
Teacher Planning			
Small Group Seminar (20-30 seats)			
Science Classroom / Lab	0	0	
Prep Room			
Central Chemical Storage Rm			
Classroom - English	618	-	618
Classroom - English	708	60	2.124
Classroom - English	716	-	716

(rofor t	o MSBA Edu	cational Prog	(refor to MSBA Educational Program & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
ż		23,410	
850	17	14,450	825.SF mm - 950.SF max
100	17	1,700	
900	-	900	
1,440	4	5,760	3 x85% utr20 Seats-1 per /day/student
200	4	800	
200	-	200	

717 705 1,416 713 2,882 2,882 710 711 711 711 711 711 705 707 705 705 1,206 1,296 1,296 1,296 1,296 1,296 1,296	4,524 4,524 0 0 0 0 0 0 0 1,618 322 1,618 322 1,000 12,880 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,066 9,300 1,747 1,74 1,74 1,67 1,69 6,98 8,49 8,49 8,49 8,49 8,49 8,49 8,49 8	3,69 1,214 1,214 1,214 1,214 1,214 1,214 1,216 770 677 236 236 236 3,830
	-0		
717 708 713 710 711 711 711 711 711 711 711 711 711	705 809 332 140 404 404 120 120 1008 504 504 504 504 504 504 289 504 504 289 504 504 504 504 504 504 504 504 504 504	1,068 9,300 457 6,380 174 167 167 168 849 849 849	3,156 774 1,214 1,415 770 677 677 833 2,359 1,559 1,590 1,500 1,50
Classroom - Engish Classroom - Halory Classroom - Halory Classroom - Mah Mah Office Classroom - Foreign Language Classroom - Lab Science Classroom / Lab	SPECIAL EDUCATION (Lat disseasons of different sites separately) Self-Contained SPED And Coulaborative CR Aff Classinom SPED Aff Classinom And Speed And Contained Speed Music Practice Music Practice Music Practice Music Practice Music Dr. And 3-D Lab - And Studio? And Comp Lab - Digital Art Lab? Storage Drama Storage And Dr	Academic Lab - Computer Lab Project Based Lab Project Based Lab Project Based Lab Gymnasium EALTH & PHYSICAL EDUCATION Gymnasium PE Allematives Gym Storeroom Locker Roome - Boys / Girls w/ Toilets Phys. Ed Storage Anthete Director's Office w/ Shower & Toilet Health Instructor's Office w/ Shower & Toilet Health Cliffer Health Cliffer Media Center Reading Room - Library Computer Lab Auditorium Storage Auditorium Storage Auditorium Storage Make-up, Oressang Rooms Computer Lab Auditorium Storage Make-up, Oressang Rooms Controle Lighting Projection Drama Set Design	Carleana Visuana Lourge / Brasivout Carleana Visuana Lourge / Brasivout Chair / Table Storge Scramble Serving Area Kitchen Start Luch Room - Teachers Room Greenwave Cafe Medical State Tolet Nurses Office / Valing Room Intervew Room Examination Room / Resting Examination Room / Resting Records Room Duplicating Room Carleans State Tolet / Valing Room Duplicating Room Carleans State Tolet Assistant Principals Office - AP-7 Assistant Principals Office - AP-7 Carleans Room Guidance Storerom Guidanc

1,800 3,300 3,300 3,300 5,760 1,700 1,700 1,000 5,000	100,125 1,200 1,200 1,500 2,000 2,000 3,000 3,000 6,080	200 1,100 4,000 1,700 3,000 1,	10,763 7,500 1,600 200 200 500 10,675 4,725 600 600 7,00 1,250 1,250 1,250 1,250 1,250 2,2	3,3,70 300 100 200 375 125 1450 450 100 100 100 100 100 100 100 1	2,075 150 250 375 375 400
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1,800 3,300 3,300 3,300 5,760 1,700	10,126 1,200 1,500 1,500 1,500 7,500 3,000 6,050	200 1,100 4,000 1,700 3,000 3,000 4,000 5,000 1,500 1,	10,763 7,500 1,600 2,00 2,00 2,00 2,00 2,00 2,800 2,800 2,800 2,800 1,250 600 600 600 600 600 600 600 600 600 7,70 7,7	3.370 300 100 200 200 375 125 125 126 450 450 100 100 100 100 100 300 300	2,075 150 250 250 375 400
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		med fifty of pop in sub-contained SPED use Goal Chin	umed use - 25% Prguddinn - 5 franzjosesk umed use - 25% Prguddinn - 6 franzjosek	umei usa - 50% Population - S. trensionesk umei usa - 50% Population - S. frensionesk	districted total	K Errollment (R. 10 SS /Smit - 725 weith 120A (779))	seatings - 1985 fees seak 000 SF foo feet 300 - 1 SF Auchere Arid 1 SF Occupator			
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		090 009 0090	1,200 150 1,500 1,500 200 75 500	1.200	12.000 3.000 3.000 3.000 2.520 500 150	3.650 3.000 1.600 363 300 200	2.250 300 600 1,750	60 250 100 100	200 200 200 375 126 150 150 150 150 150 150 150 150 150 150	150 250 375 400 300

			12/12/17			228				1 100 SF mm - 1 300 SF mmx		100								210		1.51 Average GF for 945 middle/high
400			0		75,253	450	101,700	1.35	4,800	4.800	_	1,160	300	100	110	375	125		141,800	945	214,119	1.51
										4			-	- -	-	-	-					
400									-	1,200			300	100	110	375	125					
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Т	190	328	0		79,145		111,831	1.41	3,700	3.700		1,057	278	225	06	190	86	Γ	797	T	163,560	1.45
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Storeroom Network / Telecom Room Boiler Room		Head End Room		Other (specify)	Total Building Net Floor Area (NFA)	Proposed Student Capacity / Enrollment	Total Building Gross Floor Area (GFA) ²	Grossing factor (GFA/NFA)	CORE ACADEMIC SPACES - Pro-K	(List classrooms of different sizes separately) Pre-Kindergarlen w/toilet		ADMINISTRATION & GUIDANCE - Pro-K	General Office / Waiting Room / Toilet	Teachers' Mail and Time Room	Duplicating Room	Principal's Office w/ Conference Area	Secretary / Walting		Total Building Net Floor Area (NFA)	Proposed Student Capacity / Enrollment	Total Building Gross Floor Area (GFA) ²	Grossing factor (GFAMFA)

I hereby certify that all of the information provided in this. Proposed Space Summary' is true, complete and accurate and, except as agreed to my Massachusetts School Buding Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architect Firm:

Name of Principal Architect:

Signature of Principal Architect:

Date:

Individual Room Nat Floor Area (NFA)

7 Total Building Gross Floor Area (GFA)

Proposed Space Summary - Middle Schools

DRAFT

OF RMS

ROOM NFA¹

Middle School

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Color of the Properties Color of the Pro	ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals
The color of the	ACADEMIC SPACES		7.	10,408
Continuence	t dassrooms of different sizes separately) ssroom - General	1	-	746
Interest by the series of the	English Classroom English Classroom English Classroom	661		716 661 693
Table 1.75	Spanish Classroom Spanish Classroom	737	-	737
Color Colo	Wath Classroom	648	-	648
1 100 1 100 1 100 1 100 1 1	Math Classroom Social Studies	541	- - -	541
Color of the Col	History Classroom	896	-	896
1,459 1,45	all Group Seminar (20-30 seats) / Resource	700		
1,450 1,45	Science Classroom	716	2 -	1,432
1,453 1,150 1,15	p Room			
1,450 1,45	UGeog			
States separate(s) 655 1 1581	ang			
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See	-Contained SPED Toilet			
SE2 1 279 1 2 2 2 2 2 2 2 2 2	source Koom all Group Room / Reading			
See	MUSIC			2,791
Second 1,200	Classroom vt Tech, Classroom	822	-	822
OCATION Serior MUCATION Serior MUCATION Serior MUCATION Serior MUCATION Serior MUCATION Serior Ser	Workroom w/ Storage & kiln nd / Chorus - 100 seats			
DONG 1989	horus	679		1.290
NUCATION S. 877 1 S. 877 1 S. 8. 7	sic Practice / Ensemble	2071		
NUCATION S.877 1 S.877	TIONS & TECHNOLOGY			0
MUCATION Service We will shower & Toliet Service Serv	ch Cirm (E.G. Drafting, Business) ch Shop - (E.G. Consumer, Wood)			
### Storage 102 1 28 1 1 1 1 1 1 1 1 1	ject Based Lab			
Guits wi Tolicis 1316 1412 1412 1412 1414	TH'S PHYSICAL EDUCATION	5,877	3	8,772
Gurta wil Tolicis 1,316 1,137 1,137 1	m Storeroom			900
102 1 1 1 1 1 1 1 1 1	Feam Room	385	-	385
Guris w/ Toleids Guris w/ Toleids Guris w/ Toleids Guris w/ Toleids 1,316 1,1316 1,1316 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,1456 1,146 1,147 1,141 1,14	Closet	102		102
Guits wit Tolicits Guits wit Tolicits Guits wit Tolicits 1.316 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.316 1.11 1.31	Closet	88	-	88
Guits wi Tolicits Guits wi Tolicits Guits wi Tolicits 1,316 1,1316	P.E. Office	85	-	88
1.316	Coach Office cker Rooms - Boys / Girls w/ Toilets	219	-	218
## Storage ## Sto	Girls Locker Room Boys Locker Room	1,316		1,316
Stoom	GUALGO			1 868
## Storage	dia Center / Reading Room	412	-	412
E 2,009 1	ibrary Computer Lab	1,456	-	1,456
Storage Stor	G & FOOD SERVICE	0000		4,061
Storage 1000 1 5	retorium / Dining	838	-	838
Second 187 1 187 1 188	air / Table / Equipment Storage			
active Lourge 305 1 5 5 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Warming Kitchen	606	-	306
State Stat	Teacher Lounge	302	-	306
1.00 1.00	AL dical Suite Toilet			205
1417 STRATION & CUIDANCE 1418 STRATION & CUIDANCE 1418 STRATION & CUIDANCE 1418 STRATION & CUIDANCE 1418 Stration 1619	rses' Office / Waiting Room	187	-	181
### SUIDANCE 141 Chest Walting Room / Toliet Chest Walting Room Toliet Chest School Chest	Sch. Psy.	315	-	316
and Office / Maint Black of Floor / Total forms and Office / Maint Black of Floor / Total forms and Office / Maint Black of Floor / Total forms and office / Maint Black office - AP7 (140 forms of Floor / 140 forms of Fl	STRATION &			1,195
Including Room	neral Office / Waiting Room / Toilet achers' Mail and Time Room			
141 1 1 1 1 1 1 1 1	plicating Room Copier	163	-	16:
atural Principals Office AP2 atural Principals Office	cords Room ncipal's Office w/ Conference Area	141	-	14
Annual Principals of Office AP2 evolugian Confider AP2 evolugiance Councefor indefence Room indefence Room	incipal's Secretary / Waiting sistant Principal's Office - AP1	199	-	961
Janee Room Janee Columenter 1,23 1,24 1,14	sistant Principal's Office - AP2 pervisory / Spare Office			
123 1 1 1 1 1 1 1 1 1	onference Room			
### A Proposed State Color	Guidance Councelor	123	-	12
anne Stoer Chiefe Jane Stoer Ch	Unice Behavior Office	174	-	17.
Admires Silvorenoum Admires Silvorenoum Parter Vieller Room Parter Vieller V	Read, Spec, Office Jidance Waiting Room	131		2
DIDIAL & MAINTENANCE 151 1 1 1 1 1 1 1 1	uldance Storeroom eachers' Work Room			
1995 1995	DIAL			1,374
Total Tota	todian	181	-	85
Na Strondards As Strondards As Strondards As Strondards As Broom Trash The Room Trash The Room The Room	Boiler Room	704	-	70
Room I resh Room Room Telecom Room Telecom Room Secity) Secity Se	ustodian's Storage			
n m m m m m m m m m m m m m m m m m m m	ecycling Koom / Trash eceiving and General Supply			
Telecom Room bacity) d Student Capacity / Enor Area (NFA) iding Gross Floor Area (GFA) ² shelor (GFANFA)	Supply Room oreroom	488		04
orcify) d Student Capacity / Enrollment idding Gross Floor Area (GFA) ² floor GFANFA)	stwork / Telecom Room			
iding Net Floor Area (NFA). d Student Capacity / Enrollment iding Gross Floor Area (GFA) ² i factor (GFANFA).	ER ther (specify)			2,286
iding Net Floor Area (NF.A). d Student Capacity / Enrollment idding Gross Floor Area (GF.A) ² f hactor (GF.ANF.A).	orage	102		10
iding Net Floor Area (NFA). d Student Capacity / Enrollment iding Gross Floor Area (GFA) ² i Inclor (GFANFA).	orage	291		28
iding Net Floor Area (NFA). d Student Capacity / Enrollment iding Gross Floor Area (GFA) ² s factor (GFANFA).	lorage	313		31
iding Net Floor Area (NFA)	orage	62		
Dobit Building Net Floor Area (NEA). 34,895 roposed Student Capacity / Enrollment call Building Gross Floor Area (GFA) ² 51,729 rossing factor (GFANFA).	orage	461		46
Data Building Net Floor Area (NEA). 34,895 roposed Student Capacity/ Enrollment 61,729 rossed Floor Area (GFA)* 1.48				
Toposed Student Capacity / Enrollment otal Building Gross Floor Area (GFA) ² 1.729 11.48	atal Building Net Floor Area (NFA)			34,895
roposes Superin Laboury / Enrolment. 61,729 chal Building Gross Floor Area (GFA) ² 1.48 1.48	oral building the close west (N-X)			
clal Building Gross Floor Area (SFA) ² 51,729 considering Gross Floor Area (SFA) ² 51,729 classing factor (GFANFA) 1.48	roposed Student Capacity / Enrollment			
rossing factor (GFANFA) 1.48	otal Building Gross Floor Area (GFA) ²			51.72
	section factor (GEANEA)			

			PROPO	SED 5-8 Middle Sch	lle School			
Existing to Ren	R/uieu	Renovated		Now			Total	
ROOM #OFF	RMS	area totals	ROOM NFA ¹	#OF RMS	area totals	ROOM NFA ¹	#OF RMS	area totals
1	H	0		:	31,530			31,530
	111		850	9	5,100	850	9	5.100
			850	9	5,100	850	9	5,100
	$\parallel \parallel$							
	11							
			1,200	9	7.200	1,200	9	7,200
	1		80	0 0	3,450	80	9 9	3,450
			850	9 9	5,100		9 9	5,100
		0			7,050			7,050
	\Box							
	T		850	5	4,250		20	4,250
			200	2 3 0	1,500	200	0 8 8	1,000
		0	000		3,250			3,250
	11		007'1	- -	150	150		150
	T		1,500	-	1,500		-	1,500
			200	2	400	200	2	400
		0			6,300			6,300
	T		1,050	9	6,300	1,050	8	6,300
		0			006'6			006'6
			150		7,500	7,500		7,500
	T							
	T							
			250	-	250	250	-	250
			1,000	2	2,000	1,000	2	2,000
		0	4,204		4,204	4,204	-	4,204
		0	000		9,241	-	-	9,241
			1,600		1,600	1,600		1,600
			1,965	-	1,965		- -	1,96
		0	09	-	610		-	610
			100	- 6	300	100	9 -	300
	T	0			3.466			3,466
			100		433	433		433
			200	-	200	Ш	- -	200
			375	- -	375			375
			150		150			15
			150	-	150			15
			150	4	900		4	8 00
			100	-	100		-	10
			483		483	3 483	- -	483
		0	9		2,140			2,140
			001	-	5			
			250	-	256			25
			322		400	322		400
			443	-	443		-	44
			200	1	20		-	20
		0			0			
							\prod	1
					77,691			77,69
					116,53	37		
						55		0.0

300 300 1,500 1,200 1,200 1,500 1,200

² Total Building Gross Floor Area (GFA) includes the entire building gross square footage measured from the outside face of exterior walls	Architect Certification I hereby certify that all of the information provided in this Proposed Space Summary* is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.	Name of Architect Firm:	Name of Principal Architect:	Signature of Principal Architect:			Total Building Gross Floor Area (GFA) Architect Certification	Includes the entire building gross square foolage measured from the outside face of exterior walls I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the beast of my knowledge and belief. A frue statement, made under the penalties of perjury Name of Architect Firm: Name of Principal Architect: Signature of Principal Architect:
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Version 11.24.2010

Proposed Space Summary - Middle Schools

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ROOM TYPE ROOM TYPE ROOM TYPE (Lit descroom of different sines separately) Characterian - General English Classroom English Classroom English Classroom Spanish Classroom Spanish Classroom Spanish Classroom	ROOM NFA ¹	#OF RMS	
ORE ACADEMIC SPACES (Lit destrooms of different sizes separately) (Classrooms of central English Classroom English Classroom English Classroom Spanish Classroom Spanish Classroom Spanish Classroom Spanish Classroom			area totals
(List classrooms of different sizes separately) Classroom—Central English Classroom English Classroom Spanish Classroom Spanish Classroom Spanish Classroom	1000	**	10,408
English Classroom English Classroom English Classroom Spanish Classroom Spanish Classroom			
English Classroom Spanish Classroom Spanish Classroom	716		716
Spanish Classroom	693		693
Woods I design	737	- -	737
Math Classroom	648	-	648
Social Studies	541		541
Geography Classroom History Classroom	968	-	898
Health Classroom Small Group Seminar (20-30 seats) / Resource	422	-	475
Science Classroom / Lab	716	2	1,432
Science Classroom Prep Room	877	-	877
SS/Hist/Geography Team Room			
PECIAL EDUCATION			1,638
(List classrooms of different sizes separately) SPED Classroom	655	-	655
SPED Classroom	512		512
Self-Contained SPED			
Resource Room			
Small Group Room / Reading			
ART & MUSIC Art Classroom	The state of the s		2,791
Art Tech, Classroom Art Workroom w/ Storage & kiln	822	-	822
Band / Chorus - 100 seats Chorus	679	-	679
Band/Music Room Music Practice / Ensemble	1,290	-	1,290
OCATIONS & TECHNOLOGY			0
Tech Clm - (E.G. Draffing, Business) Tech Shop - (E.G. Consumer, Wood)			
Project Based Lab			022.0
Gymnasium	5,877	-	5,877
Gym Storeroom Team Room	385	-	386
Team Closet	102	-	107
Closet	38	- -	80 88
Health Instructor's Office w/ Shower & Toilet P.E. Office	85	-	86
Coach Office Locker Rooms - Boys / Girls w/ Toilets	219	-	216
Girls Locker Room Boys Locker Room	1,316		1,316
AEDIA CENTER			1,868
Media Center / Reading Room Computer Tech. Lab	412	-	41
Library Computer Lab			4 061
Cafetorium / Dining	2,009		2.000
Chair / Table / Equipment Storage Kitchen			
Warming Kitchen Staff Lunch Room	606	-	06
Teacher Lounge	305	-	30
MEDICAL Medical Suite Toilet	1007		502
Examination Room / Resting	318	- -	0 6
Sch. Psy.			1 105
ADMINISTRATION & GUIDANCE General Office / Walting Room / Toilet Teachers: Mail and Time Room			081
Duplicating Room	163	-	163
Records Room Principal's Office w/ Conference Area	141	-	14
Principal's Secretary / Walting Assistant Principal's Office - AP1	140		199
Assistant Principal's Office - AP2 Supervisory / Spare Office			
Conference Room Guidance Office			
Guidance Councelor Office	123		123
Behavior Office Read. Spec. Office	174		13
Guidance Walting Room Guidance Storeroom			
2 3			10.7
CUSTODIAL & MAINTENANCE Custodian's Office			1,374
Custodian Office Boiler Room	704		704
Custodian's Workshop Custodian's Storage			
Recycling Room / Trash Receiving and General Supply			
Supply Room Storeroom	489	-	48
Network / Telecom Room			
OTHER Other (specify)			2,28
Storage	102		1
Storage	313		3 2
Storage	911		6
Storage	42		4
Total Building Net Floor Area (NFA)			34,89
Proposed Student Capacity / Enrollment			
Total Building Green Floor Area (GEA)			51.7
Total College State Stat			7,
Grossing factor (Gr Annr A)			

	T	totals	24,000	3,400	3,400	3,400	850	6.000	3,400	5,140	3,400	1,000	3,050	1,500	200	4,000	4,000	7,500	250	2,000		3,226		3,713	1,795	224	510 60 250	200	348	200	126	350		300	398	150	375	33(20	0					62,489
	-	area		$\perp \mid \downarrow \mid$	-		111					111		\mathbf{H}	+++	\mathbb{H}					1		Н		+	\mathbb{H}				H	+	+++	H		+	H	++		H	-	+	+	+	+	++
,	Total	#OF RMS		- 4	4	4	-	8	0 4	4	4	4 2 -	-		-		4		-	2		-			-	-		2							-	-			-						
		ROOM NFA ¹		850	850	850	850	1,200	80	575	850	500	1,200	1.500	200		1,000	7,500	250	1,000		3,226		3,713	1,795	224	60	100	348	200	375 125 150	350		100	398	150	375	330	200						
e School	\top	area totals	24,000	3,400	3,400	3,400	850	6,000	3.400	5,140	3,400	1,000	3,050	1,500	200	4,000	4,000	9,900 7,500	250	2,000		3,226		3,713	1,795	224	510 60 250	200	348	200	375 125 150	350		100	398	150	375	330	200	0					62,489
PROPOSED 6-8 Middle	New	#OF RMS		- 4	4	4	-	S	5 4	4	4	4 8 -	-		-		4	-	1	2		-				-		2		- -			,		-	-		- -							
PROPO		ROOM NFA ¹		850	850	850	850	1,200	80	575	850	500 500	1,200	1.500	200		1,000	7,500	250	1.000		3,226		3,713	1,795	224	60	100	100	200	375 125 150	350	8	100	398	150	375	265	200						
	Renovated	area totals,	0							0			0			0		0				0		0			0		0											0					0
	o Remain/f	# OF RMS								2																			-																
	Existing t	ROOM NFA ¹																						-																:.					

DRAFT idelines in & Space Standard Guidelines	Comments) SF rm - 050 SF rm x	fa.	eriod / day / student			Summed 8% of Foot in self-contained SPED	sap Geni Cim Sab Geni Cim	surred use - 50% population 2 times / week	sumed use - 50% population 2 times / week		sumed use - 25% Population - 5 Innes/week						vealings - 156/F first seat 600 SE for feet 700 + 15F vedent Add 1													
MSBA Gu	area totals	24,000		500	400	5,540	3,800	1,000 12	3,050 1,200 as	1,500 as	3.200	1,200 As	8,400 6,000 150	250	2,000	3,226 3,226	7.696	3,713 2 1,600 365 1,795 1	510	250	2,995 348 100 200	200 375 125 150	350	100	1,970	375	330	0		60,587	90,019
MSBA Fdt	#OF RMS	82		- 8	2		4	7 2 -	-		-			-	2	-			-	- 2			0 0		-		- -				
(m	ROOM NFA ¹	056		1,200	08	-	950	60 500 500	1,200	1,500	200	1,200	6,000	250	1,000	3,226		3,713 1,600 365 1,795	09	100	348	200 375 125	150 150 350	100 50 398	150	250 375 400	330				

hereby certify that all of the information provided in this 'Proposed Space Summary' is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and bole! A true statement, made under the penalties of porjury.	ot Firm:	chitect:	chitect:	Date:
I hereby certify that all of the information provided i School Building Authority to the best of my knowles	Name of Architect Firm:	Name of Principal Architect:	Signature of Principal Architect:	

- Co-Located Middle/High Schools Proposed Space Summary

DRAFT

ROOM NFA¹

Proposed 7-12 Co-Located Middle/High School with Pre-Kindergarten 8.29.13

separately)					
Separate(y) Separate(x)	### A POP Bills and a Pop Bill	Frolio Jr. High School	Exis	sting Conditi	suo
reparately) Free parately) Free parately Free	## A TO THE TO T	ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals
1	### Spanie 7.76 1 1 1 1 1 1 1 1 1	ORE ACADEMIC SPACES			10,408
reparte(r) ON Interest of the control of the cont	reparately) sab./Resource sab./res	(List classrooms of different sizes separately) Classroom - General			052
reparticity repar	## 1	English Classroom	661		661
Anness) Ann	Separately) Separ	Spanish Classroom Spanish Classroom	641		641
## 1	Separately) Separ	Math Classroom Math Classroom	735		735
## (683 1 1 1 68	Separately) separately) separately) separately) Second Secon	Math Classroom	716		716
1,00 1,00	Political School (1996) 100	Geography Classroom History Classroom	693		693
Page 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ON 6 587 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Health Classroom Small Group Seminar (20-30 seats) / Resource	422	-	422
And the late of th	ON 6.85 1 6.55 1 6.77 1 6.99 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1 1.290 1 1	Science Classroom / Lab Science Classroom	716	2	1,432
Separately) 665 100 665 110 670 670 670 670 670 670 670	### 123 1 1 1 1 1 1 1 1 1	Science Classroom Prep Room SS/Hiet/Geography	110	-	ò
over 8 Toilets 7 Toil	Siness) Wood) Wood) Wood) Wood) We A Toliet B A	Team Room			
DN 656 1 665	Mode) Wood) Wo	PECIAL EDUCATION List classrooms of different sizes separately)			1,638
1	Siness) Wood) Sass 1 1 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPED Classroom	655		655
Section Sect	aireas) Nococi) Nococi) Noco	SPED Classroom Self-Contained SPED	471	-	471
See See 1 279 See See 1 279 ON 6877 1 6877 ON 6877 1 1 1188 ON 6878	Area Tolet 85 1 123 1 124 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Self-Contained SPED Toilet Resource Room			
Secondary Secondary Secondary	Secondary 1,290 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290 1 1,290	Small Group Room / Reading			
12.50	Second 1 1290 1 1 1290 1 1 1290 1 1 1290 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RT & MUSIC Art Classroom			2,791
Noce) Noce) Noce) Noce) Noce) Noce) Noce) Noce) Noce)	Nocal) Nocal)	Art Tech. Classroom Art Workroom w/ Storage & kiln	822	-	822
Siness) Wood) Wood) Wood) Wood) Nover & Tolet Seperate	Siness) Wood) Wood) Wood) Nover & Tollet Trollets Tro	/ Chor	629	-	679
Mocod) Nover & Toilets Nover & Toilets Nover & Toilets Nover & Toilets Nover & Toilet Nov	Mocol) Nover & Toilets Toile	o Practice /	1,290	-	1,290
Note 1 1 1 1 1 1 1 1 1	Mycod) Wood) Wood) Wood) OME (\$ 8877 1 1 102	1 2			0
ON	DOWE & Tollet	N N			
National Property 1987 1988 1	10	EALTH & PHYSICAL EDUCATION			8,772
102 1 102 1 103 1 104	102 1 102 1 103 1 104 1 105 105 1 105 10	Gymnasium Gym Storeroom	5.877	-	5.877
The Colliciant State of the Colliciant Score (Colliciant Score (Co	10 10 10 10 10 10 10 10	Team Room Team	385		380
Page	Second Shower & Tolet Second Se	Closet	84		88
Room Circ w Toliets Circ w Circ	Page	Health Instructor's Office w/ Shower & Toilet P.F. Office	5 8	-	8 8
Room 1,316 1 1,816 1 1,816 1 1,816 1 1,818 1,918	1316 1	Coach Office Locker Rooms - Boys / Girls w/ Toilets	219	-	218
Reading Room	Resting Room	Girls Locker Room Boys Locker Room	1,316		1,316
Nearing Room	National Page 1	EDIACENTER			1,868
Activities Act	COOR SERVICE 2.009 11	Media Center / Reading Room Computer Tech, Lab	412		1456
2.009 1 2.009 2.009	2,009 1 1 1 1 1 1 1 1 1	Library Computer Lab			4 061
Table Equipment Storage 909 1 1		Cafetorium / Dining	2,009		2.008
Valentiny Kitchen	Valenting Kitchen 1909 11	Chair / Table / Equipment Storage Kitchen			
Coacher Lounge 305 1 24	1925 1925	Warming Kitchen Staff Lunch Room	606	-	306
Page	187 1 1 1 1 1 1 1 1 1	Teacher Lounge	305	-	30.
Standard Room Room Foundation Room Room Foundation Room Foun	Self, Pay, Self, Pay, Self, Pay,	1 6	187	-	181
National Control Con	WISTRATION & CUIDANCE renal Office / Vivating Room / Toliet cobies / Room cotal Room replais (Steeler Room replain Room rep		315	-	316
Interior Note Walking Room / Tollet 163	Interior Mail and Time Room 163				1,195
16.3 1 1 1 1 1 1 1 1 1	163 100	General Office / Walting Room / Toilet Teachers' Mail and Time Room			
141 1 1 1 1 1 1 1 1	141 141	Duplicating Room Copier	163	-	16.
199 1 199 1 199 1 199 1 1	1999 1999	o le re	141		14
Pairwisory Spare Office	Indiance Office Inference Room Inference Storencom Inference Storencom Inference Storencom Inference Storencom Inference Workshop Inference Workshop Inference Workshop Inference Workshop Inference Workshop Inference Room Inference	sistant Principal's Office -	199	-	191
123 1 124 1 124 1 124 1 124 1 124 1 1 124 1 1 124 1 1 124 1 1 124 1 1 124 1 1 124 1 1 1 124 1 1 1 1 1 1 1 1 1	123 124 124 125 126 126 127 126 127	pervisory / Spare O			
124 1 1 1 1 1 1 1 1 1	124 124 124 124 124 124 124 124 124 124 125	Guidance Office Guidance Councelor	123	-	12
Read Selec Office	Read Spee Office 131	Office Behavior Office	124		17.
achers' Work Ream ODIAL & MAINTENANCE stedenar's Office 1-13 stedenar's Office 1-13 stedenar's Office 1-13 stedenar's Office 1-14 1-15 stedenar's Office 1-15 stedenary Anno Anno Anno Anno Anno Anno Anno Ann	actions of Nork Room ODIAL & MAINTENANCE stellands office 181 181 181 181 181 181 181 1	Read. 8	131	-	13
### MANTENANCE 131 1 1 1 1 1 1 1 1	### AMNTENANCE 181 181 182 182 183 184 185 1	achers			
and Office 181 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	181 181	Custodian's Office			1,374
11 12 12 13 14 15 15 15 15 15 15 15	In Workfalop In Stooge Room Trash Room In Room In Gereral Supply In Stoom In	Custodian Office Boiler Room	704		70
A Control Common A	### ### ##############################	Custodian's Workshop Custodian's Storage			
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Total Building Gross Floor Area (GFA) ² 51,72	Total Building Gross Floor Area (GFA) ² Grossing factor (GFANFA)	Proposed Student Capacity / Enrollment			
7	Grossing factor (GFANFA)	Total Building Gross Floor Area (GFA) ²			51,72

			PROPOS	ED 7-8 Middl	o School			
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ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totais	ROOM NFA ¹	#OF RMS	area totals
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			850	m	2,550	850	m	2,550
			850	6	2,550	850	ю	2,550
			850	1	850	850	1	850
			1,200	m	3,600	1,200	6	3,600
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			850	m m	1,725	850 575	m m	1,725
		0			4,230			4,230
			850	e e	2,550	850	e e	2,550
			500	1 2	1,000	500	- 2	1,000
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		0			510			510
			250		250	250		250
			100	2	200		2	200
		0	300	-	300		-	300
			100		200			200
			375		375			375
			125		125			126
			150		150	150		150
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			100		100	100		100
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In/Re	Existing to Remain/Renovated		Now			Total
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	0			23,460		

ROOM NFA ¹	# OF RMS	area totals	Comments
		23.410	7
850	17	14,450	825 SF min - 950 SF max
100	17	1,700	
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200	1	200	

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250 375 217 217 200 200

350 66,500

ROOM 1YPE	Abington High School	Exi	Existing Conditions	suo	Existing	Existing to Remain/Renovated	enovated		Now	
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0	cher Planning			0						
ssroom / Lab 0 0 mical Storage Rm 0 0	all Group Seminar (20-30 seats)			0						
nical Storage Rm	ance Classroom / Lab	0	0	0						
	p Room			0						
	htral Chemical Storage Rm			0						
1	ssroom - English	618	-	618						
Classroom - English 708 3 2,124	ssroom - English	208	m	2,124						
Classroom - English 716 1 716	ssroom - English	716	-	716						

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	- 2				
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Classroom - English Classroom - History Classroom - History Classroom - Math Classroom - Foreign Language Classroom - Lab Science Classroom / Lab Science Classroom / Lab Science Classroom / Lab Prapi/Storage	SPECIAL EDUCATION (List classrooms of different sizes separately) Self-Contained SPED Self-Self-Self-Self-Self-Self-Self-Self-	SPED ART & MUSIC Art Class sroom - 25 seals Art Vlorkroom w Storage & kiln Bard - 50 - 100 seals Crouns - 50 - 100 seals Ereemble Music Practice Music Storage Music Storage Music Storage Art 3-D Lab - Art Studio? Art 3-D Lab - Art Studio? Art Comp Lab - Digital Art Lab? Storage Proma Storage Art Comp Lab - Digital Art Lab? Art Comp Lab - Digital Art Lab? Art Comp Lab - Digital Art Lab? Art Comp Lab - Office	VOCATIONS & TECHNOLOGY Tech Cim. (E. G. Drafting, Business) Tech Cim. (E. G. Consumer, Wood) School Bark, School Bark, School Store Academic Lab - Computer Lab Project Based Lab Project Based Lab HEALTH & PHYSICAL EDUCATION Gymmasium Gym Storenom Locker Rooms - Boys / Girls w/ Toilets Phys. Ed. Storage Health Chiector's Office w/ Shower & Toilet Health Chiector's Office w/ Shower & Toilet Health Chiese Weight Room	MEDIA.CENTER Media Center / Reading Room - Library Computer Lab Auditorium Stage Auditorium Storage Stage Make-up / Dressing Rooms Controls / Lighting / Projection Drama Set Design Controls / Lighting / Projection Drama Set Design Controls / Lighting / Projection Drama Set Design Controls / Lighting / Projection Controls / Lighting / Lighting / Projection Controls / Lighting / Light	Against Tentine and Time Room Duplicating Room Duplicating Room Principal's Office w/ Conference Area Principal's Secretary // Walting Assistant Principal's Office - AP? Supervisory // Stare Office Conference Room Guidance Room Guidance Storencom Guidance Storencom Guidance Storencom Guidance Storencom Teachers' Work Room Teachers' Work Room Teachers' Work Room Teachers' Work Room Guidance Storencom Guidance Storence Office English Schereo Office Custodian's Storage Recycling Room / Tash Receiving and General Supply

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			190	328	0		79,145		111,831	1.41
			1							
			190	328						
Storeroom	Network / Telecom Room	Boiler Room	Servers	Head End Room	OTHER	Other (specify)	Total Building Net Floor Area (NFA)	Proposed Student Capacity / Enrollment	Total Building Gross Floor Area (GFA) ²	General factor (GEANEA)

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Net Floor Area (NFA)			79,145	0
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tor (GFANFA)			1,41	
IIC SPACES - Pre-K			3,700	10000
ms of different sizes separately)			1	
arten w/ toilet	4	925	3,700	
ON & GUIDANCE - Pre-K			1,057	
se / Waiting Room / Toilet	-	278	278	
ail and Time Room	1	225	225	
Room	1	176	176	
om	1	06	06	
10 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		100	100	

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	1,100		300	100	150	110	375	125
*****	4		-	1	1	-	+	1
4,400	4,400	1,160	300	100	150	110	375	125
	1,100		300	100	150	110	375	125
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139,248			00.00	
139,248	A STATE OF THE PARTY OF THE PAR	208,872	1.5	
0				

770 2:0 196,700 • No guideline total exists for co-loca 1.51 Average GF for 775 middle/high

iual Room Net Floor Area (NFA)	Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toliets and storage rooms.
duilding Gross Floor Area (GFA)	Includes the entire building gross square footage measured from the outside face of exterior veils
oct Certification	I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachuseits School Building Authority, in accordance with the guidelines, rules, regulations and policies. Massachuseits School Building Authority to the best of my knowledge and belief. A true statement, made under the penaltes of perjury.
	Namo of Architoct Firm:
	Name of Principal Architect:
	Signature of Principal Architect:

DRAFT

ROOM NFA 9-12 High School for 450 students ROOM NFA¹

Crefe Lo M SERA E ducan in MSBAG Oubelines	-	4	4	-	17	17 14,450	23,410	# OF RMS	MSBA Educational Program & Space Standard Guidelines)
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		area totals	Comments
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MSBA Guidelines (refer to MSBA Educational Program & Space Standa	Š		14,450 825 SF mm - 060 SF max		
MSBAG ucational Progr	area totals	23,410	14,450	1,700	-
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(refe	ROOM NFA ¹		850	100	

ROOM #OF RMS

ROOM NFA¹

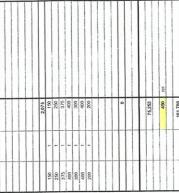
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scational Progra	area totals	23,410	14,450	1,700	200	5,760 3	800	200				
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	Assumed use - 25% Papulation - 5 times in net.		Assumed use - 25%, Population - 5 Innes/wieek						and the same of th			Assumed use - 50%, Population - 5 Investivees,	Assumed use 150% Pendaton - 5 times week						5 d s f/student total				
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250 250 375 400 300 400 200

1	Major Milestones Timeline
2	Facilities Evaluation
3	Site Evaluations Summary
4	Educational Visioning Summary Document
5	Educational Programming Document
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

summary of options considered

Many options were considered as part of the overall analysis of the best possible option for solving educational and physical deficiencies and the overcrowding within the school facilities in the Town of Abington. Some primary objectives emerged as part of the analysis, and these objectives provided clear criteria for consideration and evaluation of the options. The objectives include but are not limited to:

- 1. Provide sufficient 21st Century educational space for middle school students within the Town of Abington.
- Provide new/renovated facilities to accommodate current/future middle school students.
- Create a middle school which allows the 5/6 population to co-exist with the 7/8 populations in a "school within a school" model. The limited 7/8 population has traditionally resulted in compromised programming and teaming opportunities in Abington. Adding additional grades to this school would allow the two schools (5/6 and 7/8) to share many resources and expand educational opportunities, but would maintain any necessary separations. The educational visioning and planning process revealed that combining students in Grades 5 through 8 provides educational benefits, organizational benefits, and creates a number of desired efficiencies.
- 2. Provide sufficient 21st Century educational space for high school students within the Town of Abington.
- Provide new/renovated facilities to accommodate current/future high school students.
- Locate the middle school and the high school on the same site in a co-located middle/high school that separates middle and high school students but also allows students to share facilities on a single campus to increase efficiency and available resources.
- The feasibility study revealed that the small size of the Town of Abington and its resulting (small) student enrollment presents several challenges when planning an educational facility that includes the appropriate resources. For example, if the middle school and high school continue to operate as independent and separated facilities, they have respective populations of 665 and 450. An auditorium facility would be highly utilized at the high school, but the 450 student population would only justify an auditorium with a seating capacity of 300 (as per MSBA regulations). This would limit the school use of such a facility and, more importantly, would render it too small for community use. However, combining the two school facilities on the same site in a co-located school (Two separate schools with connecting shared facilities) will justify an auditorium which seats 750. Co-locating the two populations also justifies better resources and more space for the media center, student dining, and other shared student and community facilities, such as gymnasium space.
- Co-locating the middle and high schools expands educational opportunities which can be offered to middle school students, such as advanced placement coursework.
- Co-locating the middle and high schools increases project-based learning opportunities in specialty lab areas through the sharing of facilities.

Feasibility Study - Abington Public Schools

- Co-locating the middle and high schools creates administrative, staffing, and maintenance efficiencies.
- 4. Execute a single project which maximizes impact across all grade levels.
- Multiple projects would require that the Town approve each project independently. The MSBA procedures for reimbursement and support recognize one project per submittal.
 If multiple projects are being considered, each one would need to be submitted independently, and there is no guarantee that future projects will be considered/approved.
- The options analysis demonstrates that scenarios that include multiple school projects on multiple sites results in a longer timeline, inflationary increases, and more uncertainty.
- 5. Resolve overcrowding across all grade levels with a single project.
- The capacity and enrollment analysis indicates that removing 6th grade from the elementary schools and placing it within newly created middle school space relieves current overcrowding in Grades 1 through 5. Furthermore, removing 5th grade from the elementary school environment creates sufficient capacity in the elementary schools to allow for expansion of full-day kindergarten opportunities and the closing of the outdated, inefficient Center School. Any proposed option which could resolve issues at the middle school, high school elementary schools, and kindergarten simultaneously, in a single project, would have significant educational and financial benefits to the Town.
- 6. Provide newly created Pre-Kindergarten (PK) space at the high school.
- The educational visioning and programming process revealed that creating PK classrooms at the high school could allow for the support and expansion of a highly enrolled Child Development Program at the high school, expanding opportunities for students there. It would have the added benefit of creating sufficient PK space to allow for the closing of Center School (if kindergarten is moved to the elementary schools as a result of the 5th grade being moved to newly created middle school space).
- 7. Preserve existing playfields and expand athletic, recreation, and community outdoor playfield space.
- As with all small communities, playfield space for community, recreation, and school groups and teams is at a premium. Options which sustain or expand existing playfield opportunities are highly desirable.
- 8. Minimize impact to the Town, community, and school department throughout construction.
- Although it is understood that there will be some impact as part of the development of any new project, options which minimize such impact are desirable.
- Minimize impact to the educational environment by limiting construction in direct proximity to school occupied spaces. Shorter construction durations which minimize impact to the school and community are obviously more desirable.
- 9. Maximize MSBA support and available grant funding.
- Although it is understood that some portions of the project may not be eligible for MSBA

grant reimbursement funding, options which maximize the available grant reimbursement funding are highly desirable.

- 10. Maintain central location of school facilities within the Town.
- The sharing of resources among the schools and community is one of the primary efficiencies associated with the proximity of existing schools, particularly the middle school and the high school facilities. Options which continue to locate/maintain school facilities within a central location in the Town and in close proximity to other Town facilities and playfields will benefit the school department and the entire community.
- 11. Any proposed option should be educationally appropriate, fiscally responsible, and provide a solid long-term solution to school and facility needs in the Town.

The following is a summary of initial options considered as part of a review of facility and school needs:

Option 1

- Construct a new 5-12 co-located middle/high school with PreK facilities on the existing high school site. The existing high school would be demolished upon completion of the new facility.
- Utilize the existing Beaver Brook Elementary School (Grades 1-4) as a K-2 (full-day K).
- Utilize the existing Woodsdale Elementary School (Grades 5-6) as a 3-4.

This option completes a single building project which resolves overcrowding across all grade levels (PK-Grade 12). It would allow the inefficient and outdated Center and Frolio schools to be closed for school uses, as it creates sufficient capacity to allow all programs, including additional full-day K opportunities, to exist.

One MAJOR advantage of combining grades 5-12 into a single building project is that it creates a large enough student population to trigger MSBA support and reimbursement for resources such as a 750 seat auditorium. Any scenario that does not combine the middle school and high school populations would result in smaller facilities with less MSBA supported resources.

There are many challenges associated with planning multiple school projects over the next 10 years in Abington. An option which resolves all current overcrowding and provides appropriate educational space for all students in grades PK-12 creates an attractive alternative for ALL parents and community members. Unknowns associated with future projects are eliminated, and the Town can be certain that a single project will satisfy the Town and school needs for many years to come.

Option 1B

 Renovate and expand the existing Abington High School for use as a 5-12 co-located middle/high school with PreK facilities on the existing high school site. This option would require phased construction on the existing high school site while the school continues to be occupied. It would require more time to complete than Option 1, but would keep portions of the existing high school in place through comprehensive renovation and expansion.

- Utilize the existing Beaver Brook Elementary School (Grades 1-4) for Grades K-2 (full-day K).
- Utilize the existing Woodsdale Elementary School (Grades 5-6) for Grades 3-4.

This option completes a single building project which resolves overcrowding across all grade levels (PK-Grade 12). It would allow the inefficient and outdated Center and Frolio schools to be closed for school uses, as it creates sufficient capacity to allow all programs, including additional full-day K opportunities, to exist.

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Option 2

- Construct a new 6-12 co-located middle/high school with PreK facilities on the existing high school site.
- Utilize Center School (Currently Grade PK-K) for continued use as Kindergarten with no additional full-day K opportunities
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) for Grades 1-3.
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) for Grades 4-5.

One MAJOR advantage of combining grades 6-12 into a single building project is that it creates a large enough student population to trigger MSBA support and reimbursement for resources such as a 750 seat auditorium. Any scenario that does not combine the middle school and high school populations would result in smaller facilities with less MSBA supported resources.

This Option is similar to Option 1; however it does not create sufficient capacity to allow for the closing of Center School or additional full-day K opportunities. This option would require the Town to revisit facility needs for Kindergarten students at some point in the future and would require the Town to continue to incur the operational and maintenance costs associated with continuing to operate the Center School. In this option, the Frolio School would be closed for school uses.

Option 2B

- Renovate and expand the existing Abington High School for use as a 6-12 co-located middle/high school with PreK facilities.
- Utilize Center School (Currently Grade PK-K) for continued use as Kindergarten with no additional full-day K opportunities.
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) for Grades 1-3.
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) for Grades 4-5.

One MAJOR advantage of combining grades 6-12 into a single building project is that it creates a large enough student population to trigger MSBA support and reimbursement for resources such as a 750 seat auditorium. Any scenario that does not combine the middle school and high school populations would result in smaller facilities with less MSBA supported resources.

This Option is similar to Option 1B; however it does not create sufficient capacity to allow for the closing of Center School or additional full-day K opportunities. This option would require the Town to revisit facility needs for Kindergarten students at some point in the future and would require the Town to continue to incur the operational and maintenance costs associated with continuing to operate the Center School. In this option, the Frolio School would be closed for school uses.

All of the following options (Options 3 through 7B) include two or more separate building projects. MSBA will only consider one building project at a time, so under these scenarios, the Town would have to re-apply to the MSBA for building projects beyond the first project, and such projects would also have to be approved/funded by the Town as separate projects, with each separate project needing its own Town Meeting and ballot election. There would obviously be some delay before the MSBA could consider subsequent projects, and there is no guarantee when/if the subsequent projects would be approved. Although these options would allow the Town to make a smaller initial investment, each of them proves significantly more expensive in the long run (for all Options 3 through 7B) and would take many more years to complete.

Option 3

- Project 1: Construct a new 6-12 co-located middle/high school on the existing high school site.
- Project 2: Renovate Frolio Middle School for Grades 4-5 elementary.
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) for grades PK 1.
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) for Grades 2-3.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the re-organized Beaver Brook Elementary School.

One MAJOR advantage of combining grades 6-12 into a single building project is that it creates a large enough student population to trigger MSBA support and reimbursement for resources

such as a 750 seat auditorium. Any scenario that does not combine the middle school and high school populations would result in smaller facilities with less MSBA supported resources.

This Option is similar to Option 2; however it utilizes a renovation project at the Frolio to resolve current PK-5 overcrowding. The renovation of the Frolio is an expensive project and may not provide an ideal elementary school environment, but this option is included as a means for keeping the Frolio operational as a school. The Town would have to re-apply to the MSBA for the Frolio building project subsequent to the completion of the 6-12 school, and such project would also have to be approved/funded by the Town as a separate project, requiring separate Town Meeting and ballot election. There would obviously be some delay before the MSBA could consider the Frolio project, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the Frolio project would not commence until at least four years after the 6-12 project.

Option 3B

- Project 1: Renovate and expand the existing Abington High School for use as a 6-12 colocated middle/high school.
- Project 2: Renovate Frolio Middle School for Grades 4-5 elementary.
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) for grades PK-1.
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) for Grades 2-3.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the re-organized Beaver Brook Elementary School.

One MAJOR advantage of combining grades 6-12 into a single building project is that it creates a large enough student population to trigger MSBA support and reimbursement for resources such as a 750 seat auditorium. Any scenario that does not combine the middle school and high school populations would result in smaller facilities with less MSBA supported resources.

This Option is similar to Option 2; however it utilizes a renovation project at the Frolio to resolve current PK-5 overcrowding. The renovation of the Frolio is an expensive project and may not provide an ideal elementary school environment, but this option is included as a means for keeping the Frolio operational as a school. The Town would have to re-apply to the MSBA for the Frolio building project subsequent to the completion of the 6-12 school, and such project would also have to be approved/funded by the Town as a separate project, requiring separate Town Meeting and ballot election. There would obviously be some delay before the MSBA could consider the Frolio project, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the Frolio project would not commence until at least four years after the 6-12 project.

Option 4

- Project 1: Construct new Abington High School for Grades 9-12.
- Project 2: Renovate/modify existing Frolio Middle School for continued use as a 7-8

middle school.

- Project 3: Renovate/expand Beaver Brook Elementary School (Currently Grades 1-4) for use as PK-3.
- Project 4: Renovate/expand Woodsdale Elementary School (Currently Grades 5-6) for Grades 4-6.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the re-organized Beaver Brook Elementary School.

This option has many inherent educational and financial disadvantages. However, it is included to demonstrate the high cost and inefficiencies associated with continuing the current grade configurations and separate sites utilized for grades 7-12 by proposing to create a new 9-12 high school at the high school site and a renovated 7/8 Frolio school. This option does not provide ANY significant overcrowding relief until the execution of the third project, as the first two projects primarily involve modernizing educational opportunities and facilities for grades 7-12. The renovation of the Frolio is an expensive project and may not provide an ideal middle school environment for grades 7/8, but this option is included as a means for keeping the Frolio operational as a school, and continuing the current grade configurations in 7/8 and 9-12. One of the many disadvantages of this option is that the 9-12 high school is very small (in comparison to most high schools) and does not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. The Town would have to re-apply to the MSBA for each of the three projects that occur subsequent to the completion of the 9-12 school, and such projects would also have to be approved/funded by the Town as separate projects, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent projects, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the projects would not commence until at least four to seven years after the 9-12 project.

Option 4B

- Project 1: Renovate/modify existing Abington High School for use as a 9-12 high school.
- Project 2: Renovate/modify existing Frolio Middle School for use as a 7-8 middle school.
- Project 3: Renovate/expand Beaver Brook Elementary School (Grades 1-4) for use as PK-3.
- Project 4: Renovate/expand Woodsdale Elementary School (Grades 5-6) for Grades 4-6.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the re-organized Beaver Brook Elementary School.

This option has many inherent educational and financial disadvantages. However, it is included to demonstrate the high cost and inefficiencies associated with continuing the current grade configurations and separate sites utilized for grades 7-12 by proposing a renovated/expanded 9-12 high school at the high school site and a renovated 7/8 Frolio school. This option does not provide ANY significant overcrowding relief until the execution of the third project, as the first two projects primarily involve modernizing educational opportunities and facilities for grades 7-12. The renovation of the Frolio is an expensive project and may not provide an ideal middle school environment for grades 7/8, but this option is included as a means for keeping

the Frolio operational as a school, and continuing the current grade configurations in 7/8 and 9-12. One of the many disadvantages of this option is that both the high school and middle school are very small (in comparison to most high schools and middle schools) and do not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. The Town would have to re-apply to the MSBA for each of the three projects that occur subsequent to the completion of the 9-12 school, and such projects would also have to be approved/funded by the Town as separate projects, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent projects, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the projects would not commence until at least four to seven years after the 9-12 project.

Option 5

- Project 1: Construct new Abington High School for Grades 9-12.
- Project 2: Renovate/expand Beaver Brook Elementary School (Currently Grades 1-4) for use as PK-4.
- Project 3: Renovate/expand Woodsdale Elementary School (Currently Grades 5-6) for Grades 5-8.
- Close the Center School (Currently Grades PK-K) and the Frolio School, as the grade levels currently accommodated by these schools would be relocated to expanded facilities at Beaver Brook Elementary and Woodsdale Elementary.

This option has many inherent educational and financial disadvantages. However, it is included to demonstrate the high cost and inefficiencies associated with creating the majority of the required additional space at the Beaver Brook Elementary and Woodsdale Elementary schools. This option does not provide ANY significant overcrowding relief until after the execution of all three projects, as the first project involves creating a new the 9-12 high school, the second project involves relieving PK-4 overcrowding and expanding educational opportunities for these grade levels, and the third project involves modernizing and expanding 5-8 facilities and relieving overcrowding for these students. This option becomes extremely expensive because the expansion at each of the existing elementary schools would trigger a requirement for comprehensive renovations and code compliance within the existing buildings. These buildings are in relatively good condition, and if they are not expanded, only minimal capital projects would have to be executed in the foreseeable future.

One of the additional disadvantages of this option is that both the high school remains very small (in comparison to most high schools and middle schools) and does not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. Additionally, the Town would have to re-apply to the MSBA for each of the two projects that occur subsequent to the completion of the 9-12 school, and such projects would also have to be approved/funded by the Town as separate projects, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent projects, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the projects would not commence until at least four to seven years after the 9-12 project.

Option 5B

- Project 1: Renovate/modify existing Abington High School for use as a 9-12 high school.
- Project 2: Renovate/expand Beaver Brook Elementary School (Currently Grades 1-4) for use as PK-4.
- Project 3: Renovate/expand Woodsdale Elementary School (Currently Grades 5-6) for Grades 5-8.
- Close the Center School (Currently Grades PK-K) and the Frolio School, as the grade levels currently accommodated by these schools would be relocated to expanded facilities at Beaver Brook Elementary and Woodsdale Elementary.

This option has many inherent educational and financial disadvantages. However, it is included to demonstrate the high cost and inefficiencies associated with creating the majority of the required additional space at the Beaver Brook Elementary and Woodsdale Elementary schools. This option does not provide ANY significant overcrowding relief until after the execution of all three projects, as the first project involves creating a renovated/expanded 9-12 high school, the second project involves relieving PK-4 overcrowding and expanding educational opportunities for these grade levels, and the third project involves modernizing and expanding 5-8 facilities and relieving overcrowding for these students. This option becomes extremely expensive because the expansion at each of the existing elementary schools would trigger a requirement for comprehensive renovations and code compliance within the existing buildings. These buildings are in relatively good condition, and if they are not expanded, only minimal capital projects would have to be executed in the foreseeable future.

One of the additional disadvantages of this option is that both the high school remains very small (in comparison to most high schools and middle schools) and does not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. Additionally, the Town would have to re-apply to the MSBA for each of the two projects that occur subsequent to the completion of the 9-12 school, and such projects would also have to be approved/funded by the Town as separate projects, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent projects, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the projects would not commence until at least four to seven years after the 9-12 project.

Option 6: Two Stages - Two New School Buildings

- Project 1: Construct a new Abington Middle School for Grades 5-8. Then subsequent to the completion and occupancy of the new middle school:
- Project 2: Construct a new Abington High School for Grades 9-12 with Pre-K.
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) as a K-2 (full-day K).
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) as a 3-4.
- Close the Center School (Currently Grades PK-K) and the Frolio School, as the grade levels
 currently accommodated by these schools would be relocated to expanded facilities at
 the other schools.

This option is similar to Option 1, except it separates the 5-12 co-located school project into two separate projects on the high school site; a new middle school project and a new high school project. One MAJOR disadvantage of this approach is the Town is only authorized (Through MSBA) for a single project, and would have to re-apply to the MSBA for the 9-12 high school project. Such project would have to be approved/funded by the Town as a separate project. requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent high school project, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the high school project would not commence until at least four years after the middle school project, resulting in significant inflationary costs. Another significant disadvantage of executing two separate projects is that each of the schools represents a single stand-alone building with a relatively small student population (compared to most middle and high schools), and does not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. If the two schools are combined into a single co-located school (Like Options 1 through 3b) they form a larger facility with more MSBA support of such resources.

Option 6B: Two Stages – Two New/Renovated School Buildings

- Project 1: Construct a new Abington Middle School for Grades 5-8. Then subsequent to the completion and occupancy of the new middle school:
- Project 2: Renovate/Expand new Abington High School for Grades 9-12 with Pre-K.
- Utilize the existing Beaver Brook Elementary School (Currently Grades 1-4) as a K-2 (full-day K).
- Utilize the existing Woodsdale Elementary School (Currently Grades 5-6) as a 3-4.
- Close the Center School (Currently Grades PK-K) and the Frolio School, as the grade levels currently accommodated by these schools would be relocated to expanded facilities at the other schools.

This option is similar to Option 1B, except it separates the 5-12 co-located school project into two separate projects on the high school site; a new middle school project and a renovation/ addition high school project. One MAJOR disadvantage of this approach is the Town is only authorized (Through MSBA) for a single project, and would have to re-apply to the MSBA for the 9-12 high school project. Such project would have to be approved/funded by the Town as a separate project, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent high school project. and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the high school project would not commence until at least four years after the middle school project, resulting in significant inflationary costs. Another significant disadvantage of executing two separate projects is that each of the schools represents a single stand-alone building with a relatively small student population (compared to most middle and high schools), and does not justify MSBA support of many resources such as a full size auditorium and larger community use spaces. If the two schools are combined into a single co-located school (Like Options 1 through 3b) they form a larger facility with more MSBA support of such resources.

Option 7

- Project 1: Construct new Abington co-located Middle/High School for Grades 7-12 with PK.
- Project 2: Renovate/expand Beaver Brook Elementary School (Currently Grades 1-4) for use as K-4.
- Woodsdale Elementary School receives no work and continues as a Grades 5-6 school.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the high school and Beaver Brook Elementary School respectively.
- Close the Frolio, as grades 7/8 would be accommodated at the co-located middle/high school.

This option is similar to options 1 and 2, except it defers dealing with the overcrowding in grades K-6 until the execution of a second project. The Town is only authorized (Through MSBA) for a single project, and would have to re-apply to the MSBA for the Beaver Brook Elementary School renovation and expansion. Such project would have to be approved/funded by the Town as a separate project, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent Beaver Brook project, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the Beaver Brook Elementary School project would not commence until at least four years after the 7-12 middle/high school project.

This option requires that the Beaver Brook Elementary School be expanded in order to provide the additional space required to resolve PK-6 overcrowding. Such expansion triggers expensive regulatory compliance within the existing school which would not be necessary if the facility was not expanded. This results in a more expensive option that those identified in options 1 and 2.

Additionally, this option does not address all of the educational disadvantages identified in the educational visioning and educational programming documents with regard to maintaining a 7/8 middle school configuration. The continued existence of a 7/8 middle school configuration does not meet the middle school educational goals and priorities identified within these documents.

Option 7B

- Project 1: Renovate/modify existing Abington High School for use as a collocated Middle/ High School for Grades 7-12 with PK.
- Project 2: Renovate/expand Beaver Brook Elementary School (Currently Grades 1-4) for use as K-4.
- Woodsdale Elementary School receives no work and continues as a Grades 5-6 school.
- Close the Center School (Currently Grades PK-K), as PK and K would be accommodated at the high school and Beaver Brook Elementary School respectively.
- Close the Frolio, as grades 7/8 would be accommodated at the co-located middle/high school.

Feasibility Study - Abington Public Schools

This option is similar to options 1B and 2B, except it defers dealing with the overcrowding in grades K-6 until the execution of a second project. The Town is only authorized (Through MSBA) for a single project, and would have to re-apply to the MSBA for the Beaver Brook Elementary School renovation and expansion. Such project would have to be approved/funded by the Town as a separate project, requiring separate Town Meeting and ballot election votes. There would obviously be some delay before the MSBA could consider the subsequent Beaver Brook project, and there is no guarantee when/if the project would be approved. For purposes of estimating the projected costs, it is assumed that the Beaver Brook Elementary School project would not commence until at least four years after the 7-12 middle/high school project.

This option requires that the Beaver Brook Elementary School be expanded in order to provide the additional space required to resolve PK-6 overcrowding. Such expansion triggers expensive regulatory compliance within the existing school which would not be necessary if the facility was not expanded. This results in a more expensive option that those identified in options 1B and 2B.

Additionally, this option does not address all of the educational disadvantages identified in the educational visioning and educational programming documents with regard to maintaining a 7/8 middle school configuration. The continued existence of a 7/8 middle school configuration does not meet the middle school educational goals and priorities identified within these documents.

New 5-12 co-located middle/high school with Pre-K facilities on existing high school site Option 1:

Renovation/expansion of existing Abington HS for use as 5-12 co-located middle/high school with Pre-K facilities on existing high school site Option 1B:

New 6-12 co-located middle/high school with Pre-K facilities on existing high school site Option 2: Option 2B: Renovation/expansion of existing Abington HS for use as 6-12 co-located middle/high school with Pre-K facilities

Option 3

- Project 1: new 6-12 co-located middle/high school on existing high school site
- Project 2: renovation of Frolio MS for grades 4-5 elementary

Option 3B

- Project 1: renovation/expansion of existing Abington HS for use as 6-12 co-located middle/high school
- Project 2: renovation of Frolio MS for grades 4-5 elementary

Option 4

- Project 1: new Abington HS for grades 9-12
- Project 2: renovation/modification of existing Frolio MS for use as 7-8 middle school
- Project 3: renovation/expansion of Beaver Brook ES (grades 1-4) for use as PK-3
- Project 4: renovation/expansion of Woodsdale ES (grades 5-6) for grades 4-6. Close Center School.

Option 4B

- Project 1: renovation/modification of existing Abington HS for use as 9-12 high school
- Project 2: renovation/modification of existing Frolio MS for us as 7-8 middle school
- Project 3: renovation/expansion of Beaver Brook ES (grades 1-4) for use as PK-3
- Project 4: renovation/expansion of Woodsdale ES (grades 5-6) for grades 4-6

Option 5

- Project 1: new Abington HS for grades 9-12
- Project 2: renovation/expansion of Beaver Brook ES (grades 1-4) for use as PK-4
- Project 3: renovation/expansion of Woodsdale ES (grades 5-6) for grades 5-8. Close Center School and Frolio School.

Option 5B

- Project 1: renovation/modification of existing Abington HS for use as 9-12 high school
- Project 2: renovation/expansion of Beaver Brook ES (grades 1-4) for use as PK-4
- Project 3: renovation/expansion of Woodsdale ES (grades 5-6) for grades 5-8. Close Center School and Frolio School.

Ontion 6

- Project 1: new Abington MS for grades 5-8
- Project 2: new Abington HS for grades 9-12 (subsequent to completion/occupancy of new middle school)

Option 6B

- Project 1: new Abington MS for grades 5-8
- Project 2: renovation/expansion of existing Abington HS for grades 9-12 (subsequent to completion/occupancy of new middle school)

Option 7

- Project 1: new Abington co-located MS/HS for grades 7-12 with Pre-K
- Project 2: renovation/expansion of Beaver Brook ES (grades 1-4) for use as K-4

Option 7B

- Project 1: renovation/modification of existing Abington HS for use as co-located MS/HS for grades 7-12 with Pre-K
- Project 2: renovation/expansion of Beaver Brook ES (grades 1-4) for use as K-4

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1	Major Milestones Timeline
2	Facilities Evaluation
3	Site Evaluations Summary
4	Educational Visioning Summary Document
5	Educational Programming Document
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

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ces the option improve grade level configurations, making for more efficient schools? © Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø Ø	Does the option consider MSBA current guidelines for maximizing reimbursement?	7	Ø		Ø		☑			,,,,,,,				Ø	
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	Does the option include sufficient capacity to incorporate 5th Grade into Middle School for expanded educational opportunities?		Ø									Ø	Ø		
best the option avoid, or minimize modular space to relieve overcrowding?	Does the option include sufficient capacity to expand full-day Kindergarten opportunities while simultaneously incorporating PK/K into other facilities, allowing for closing of Center School?		Ø				*****					Ø	Ø	Ø	Ø
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TOTALS 25 21 24 49 9 9 6 6 6 6 40 42 40 44	Does the option minimize perceieved traffic impacts?	Ø	₫	Ø	₫							Ø	Ø	,	
1941 WELL AND A COLOR OF THE CO	TOTALS	25	21	21	18	8	8	6	6	6	6	16	13	12	11

1	Major Milestones Timeline
2	Facilities Evaluation
3	Site Evaluations Summary
4	Educational Visioning Summary Document
5	Educational Programming Document
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

PROJECT BUDGET COMPARISONS (estimated)

	Option #1	Option #1B	Option #2	Option #2B	Option #3	Option #3B	Option #4	Option #4B	Option #5	Option #5B	Option #6	Option #6B	Option #7	Option #7B
	New 5-12 co-located MS/HS with Pre-K	Reno/Add 5-12 co-located MS/HS with Pre-K	New 6-12 co-located MS/HS with Pre-K	Reno/Add 6-12 co-located MS/HS with Pre-K	New 6-12 co-located	Reno/Add 6-12 co-located		Reno/Add 9-12	New 9-12	Reno/Add 9-12	New 5-8	New 5-8	New 7-12 co-located	Reno/Add 7-12 co-located
New Construction Square Footage Renovation Square Footage	243,494	145,300	223,439	125,540	MS/HS 215,099	MS/HS 117,200	HS 145,000	HS 25,000	HS 145,000	HS 25,000	MS 116,537	MS 116,537	MS/HS with Pre-K 208,872	MS/HS with Pre-K 110,065
Number of 5-12 Pupils	0 1,115	111,831 1,115	945	111,831 945	945	111,831 945	0 450	111,831 450	0 450	111,831 450	0 450	0	0	111,831
Number of Pre-Kindergarten Pupils Base Line MSBA Reimbursement Rate (a)	60 55.63%	60 55.63%	60 55.63%	60 55.63%	0 55.63%	0 55.63%	0 55.63%	0 55.63%	0	0	0	450 0	770 60	770 60
Description	Amount %	Amount %	Amount %	Amount %	Amount %	Amount %			55.63%	55.63%	55.63%	55.63%	55.63%	55.63%
New Construction Costs Renovation Construction Costs	\$73,048,200.00 82% \$0.00 0%		\$67,031,700.00 82%	\$37,662,000.00 45%	\$64,529,700.00 82%	\$35,160,000.00 439	7 /		Amount % \$43,500,000.00 83%	Amount % \$7,500,000.00 16%	Amount % \$34,961,100.00 83%	Amount % \$34,961,100.00 83%	Amount % \$62,661,600.00 83%	Amount % \$33,019,500.00 42%
Furniture, Equipment & Technology	\$2,820,000.00 3%	\$2,820,000.00 3%	\$2,412,000.00 3%	\$30,753,525.00 37% \$2,412,000.00 3%	\$2,268,000.00 3%	\$30,753,525.00 389 \$2,268,000.00 39	6 \$0.00 0% 6 \$1,080,000.00 2%	\$30,753,525.00 659 \$1,080,000.00 29		\$30,753,525.00 65% \$1,080,000.00 2%	\$0.00 0% \$1,080,000.00 3%	\$0.00 0% \$1,080,000.00 3%	\$0.00 0% \$1,992,000.00 3%	\$30,753,525.00 39%
Architecture & Engineering Fees Owner's Project Manager Fees	\$5,843,856.00 7% \$1,826,205.00 2%	\$5,947,482.00 6% \$1,858,588.13 2%	\$5,362,536.00 7% \$1,675,792.50 2%	\$5,473,242.00 7% \$1,710,388.13 2%		\$5,273,082.00 79 \$1,647,838.13 29	\$3,480,000.00 7% \$1,087,500.00 2%		70,000,000.00	\$3,060,282.00 6%	\$2,796,888.00 7%	\$2,796,888.00 7%	\$5,012,928.00 7%	\$5,101,842.00 7%
Misc. Project Costs Owner's Contingency	\$913,102.50 1% \$730,482.00 1%		\$837,896.25 1% \$670,317.00 1%	\$855,194.06 1% \$761,039.06 1%		\$823,919.06 19 \$736,019.06 19	\$543,750.00 1%	\$478,169.06 19	\$543,750.00 1%	\$478,169.06 1%	\$874,027.50 2% \$437,013.75 1%	\$874,027.50 2% \$437,013.75 1%	\$1,566,540.00 2% \$783,270.00 1%	\$1,594,325.63 2% \$797,162.81 1%
Construction Contingency Total Project Costs (MSBA Reimbursement	\$3,652,410.00 4%	\$4,793,549.63 5%	\$3,351,585.00 4%	\$4,497,149.63 5%		\$4,372,049.63	\$2,175,000.00 4%	\$459,419.06 19 \$2,989,049.63 69	% \$435,000.00 1% % \$2,175,000.00 4%	\$459,419.06 1% \$2,989,049.63 6%	\$349,611.00 1% \$1,748,055.00 4%	\$349,611.00 1% \$1,748,055.00 4%	\$626,616.00 1% \$3,133,080.00 4%	\$714,614.06 1% \$4,265,024.63 5%
Eligible) (b)	\$88,834,255.50 100%	\$91,512,757.88 100%	\$81,341,826.75	\$84,124,537.88 100%	\$78,251,721.75 100%	\$81,034,432.88 100%	\$52,301,250.00 100%	\$47,276,782.88 1009	% \$52,301,250.00 100%	\$47,276,782.88 100%	\$42,246,695.25 100%	\$42,246,695.25 100%	\$75,776,034.00 100%	\$78,237,994.13 100%
MSBA Cost Reimbursement (c=a*b) (c)	(\$49,418,496.33) -56%	(\$50,908,547.21) -56%	(\$45,250,458.22) -56%	(\$46,798,480.42) -56%	(\$43,531,432.81) -56%	(\$45,079,455.01) -56%	(\$29,095,185.38) -56%	(\$26,300,074.31) -56%	(\$29,095,185.38) -56%	(\$26,300,074.31) -56%	(\$23,501,836.57) -56%	(\$23,501,836.57) -56%	(\$42,154,207.71) -56%	(\$43,523,796.13) -56%
Total (Eligible) Project Costs NOT Reimbursed by MSBA (d=b-c) which must be paid by										<u></u>	(722)2020	(\$25,501,030.31)	(342,134,207.71)	(343,323,790.13)
Abington (d)	\$39,415,759.17 44%	\$40,604,210.67 44%	\$36,091,368.53 44%	\$37,326,057.46 44%	\$34,720,288.94 44%	\$35,954,977.87 44%	\$23,206,064.63 44%	\$20,976,708.56 44%	\$23,206,064.63 44%	\$20,976,708.56 44%	\$18,744,858.68 44%	\$18,744,858.68 44%	\$33,621,826.29 44%	\$34,714,197.99 44%
Additional Project Costs NOT Reimbursed by MSBA														
Site Resources > 8% Cap (e) Furniture, Equipment & Technology (f)	\$3,500,000.00 \$1,410,000.00	\$3,500,000.00 \$1,410,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$3,500,000.00	\$0.00	\$0.00	\$3,500,000.00	\$3,500,000.00
Total Additional Project Costs NOT Reimbursed by MSBA (g=e+f) (g)		\$4,910,000.00	\$1,206,000.00	\$1,206,000.00	\$1,134,000.00	\$1,134,000.00	\$540,000.00	\$540,000.00	\$540,000.00	\$540,000.00	\$540,000.00	\$540,000.00	\$996,000.00	\$996,000.00
itelinoused by insuring territy	34,910,000.00	\$4,910,000.00	\$4,706,000.00	\$4,706,000.00	\$4,634,000.00	\$4,634,000.00	\$4,040,000.00	\$4,040,000.00	\$4,040,000.00	\$4,040,000.00	\$540,000.00	\$540,000.00	\$4,496,000.00	\$4,496,000.00
New Construction Square Footage					Renovated 4-5 Frolio	Renovated 4-5 Frolio	Renovated 7-8 Frolio	Renovated 7-8 Frolio			New 9-12 HS	Reno/Add 9-12 HS		
Renovation Square Footage Number of Pupils					0 51,729	0 51,729	0 51,729	0 51,729			145,137 0	42,000 111,831		
					350	350	350	350			450	450		
Description New Construction Costs					Amount % \$0.00 0%	Amount % \$0.00 0%	Amount % \$0.00 0%	Amount % \$0.00 0%			Amount % \$43,541,100.00 77%	Amount %		
Renovation Construction Costs Furniture, Equipment & Technology					\$14,225,475.00 77% \$1,260,000.00 7%	\$14,225,475.00 77% \$1,260,000.00 7%			6		\$0.00 0%	\$12,600,000.00 22% \$30,753,525.00 54%		
Architecture & Engineering Fees Owner's Project Manager Fees					\$1,138,038.00 6%	\$1,138,038.00 6%	\$1,138,038.00 6%	\$1,138,038.00 6%	6		\$1,620,000.00 3% \$3,483,288.00 6%	\$1,620,000.00 3% \$3,468,282.00 6%		
Misc. Project Costs Owner's Contingency					\$177,818.44 1%	\$355,636.88 2% \$177,818.44 1%	\$355,636.88 2% \$177,818.44 1%	\$355,636.88 2% \$177,818.44 1%			\$1,088,527.50 2% \$544,263.75 1%	\$1,083,838.13 2% \$541,919.06 1%		
Construction Contingency Site Resources > 8% Cap					\$177,818.44 1% \$1,209,165.38 7%	\$177,818.44 1% \$1,209,165.38 7%	\$177,818.44 1% \$1,209,165.38 7%				\$435,411.00 1% \$2,177,055.00 4%	\$510,419.06 1% \$3,244,049.63 6%		
SUBTOTAL PROJECT COST Inflation for Years of Delay					\$0.00 0% \$18,543,952.13 100%	\$0.00 0% \$18,543,952.13 100%	\$0.00 0% \$18,543,952.13 100%	\$0.00 0% \$18,543,952.13 100%			\$3,500,000.00 6% \$56,389,645.25 100%	\$3,500,000.00 6% \$57,322,032.88 100%		
TOTAL PROJECT COST (NOT reimbursed by					\$3,996,337.58 (4 years)	\$3,996,337.58 (4 years)	\$3,996,337.58 (4 years)	\$3,996,337.58 (4 years)			\$8,888,417.83 (3 years)	\$9,035,385.43 (3 years)		
MSBA) (h)					\$22,540,289.71	\$22,540,289.71	\$22,540,289.71	\$22,540,289.71			\$65,278,063.08	\$66,357,418.31		
							Reno/Add BBES PK-3 and Woodsdale 4-6	Reno/Add BBES PK-3 and Woodsdale 4-6	Reno/Add BBES PK-4 and Woodsdale 5-8	Reno/Add BBES PK-4 and Woodsdale 5-8			Reno/Add BBES PK-4 and	Reno/Add BBES PK-4 and
New Construction Square Footage Renovation Square Footage							60,000 123,000	60,000 123,000	80,000 123,000	80,000 123,000			Woodsdale 5/6 no work 63,830	Woodsdale 5/6 no work 63,830
Number of Pupils							1,140	1,140	1,310	1,310			67,000 815	67,000 815
Description New Construction Costs							Amount %	Amount %	Amount %	Amount %			Amount %	Amount %
Renovation Construction Costs Furniture, Equipment & Technology							\$18,000,000.00 27% \$33,825,000.00 51%	\$33,825,000.00 51%		\$24,000,000.00 32% \$33,825,000.00 46%			\$19,149,000.00 40% \$18,425,000.00 38%	\$19,149,000.00 40% \$18,425,000.00 38%
Architecture & Engineering Fees Owner's Project Manager Fees							\$4,104,000.00 6% \$4,146,000.00 6%	\$4,104,000.00 6% \$4,146,000.00 6%	, , ,	\$4,716,000.00 6% \$4,626,000.00 6%			\$2,934,000.00 6% \$3,005,920.00 6%	\$2,934,000.00 6% \$3,005,920.00 6%
Misc. Project Costs							\$1,295,625.00 2% \$647,812.50 1%	\$1,295,625.00 2% \$647,812.50 1%	\$1,445,625.00 2% \$722,812.50 1%	\$1,445,625.00 2% \$722,812.50 1%			\$939,350.00 2%	\$939,350.00 2%
Owner's Contingency Construction Contingency							\$602,812.50 1% \$3,775,125.00 6%	\$602,812.50 1% \$3,775,125.00 6%	\$662,812.50 1%	\$662,812.50 1%			\$469,675.00 1% \$421,802.50 1%	\$469,675.00 1% \$421,802.50 1%
Site Resources > 8% Cap SUBTOTAL PROJECT COST							\$0.00 0%	\$0.00 0%	\$4,075,125.00 6% \$0.00 0%	\$4,075,125.00 6% \$0.00 0%			\$2,523,575.00 5% \$0.00 0%	\$2,523,575.00 5% \$0.00 0%
Inflation for Years of Delay TOTAL PROJECT COST (NOT reimbursed by							\$66,396,375.00 100% \$27,029,992.33 (7 years)	\$66,396,375.00 100% \$27,029,992.33 (7 years)	\$74,073,375.00 100% \$15,963,275.27 (4 years)	\$74,073,375.00 100% \$15,963,275.27 (4 years)			\$47,868,322.50 100% \$10,315,922.68 (4 years)	\$47,868,322.50 100% \$10,315,922.68 (4 years)
MSBA) (i)							\$93,426,367.33	\$93,426,367.33	\$90,036,650.27	\$90,036,650.27			\$58,184,245.18	\$58,184,245.18
Total Cost to Town of Abington (j=d+g+h+i) (j) Anticipated Additional MSBA Reimbursement	\$44,325,759.17	\$45,514,210.67	\$40,797,368.53	\$42,032,057.46	\$61,894,578.65	\$63,129,267.57	\$143,212,721.66	\$140,983,365.59	\$117,282,714.90	\$115,053,358.83	\$84,562,921.76	\$85,642,276.99	\$96,302,071.46	\$97,394,443.17
(k=b*3%) Total Cost to Town of Abington after	(\$2,665,027.67)	(\$2,745,382.74)	(\$2,440,254.80)	(\$2,523,736.14)	(\$2,347,551.65)	(\$2,431,032.99)	(\$1,569,037.50)	(\$1,418,303.49)	(\$1,569,037.50)	(\$1,418,303.49)	(\$1,267,400.86)	(\$1,267,400.86)	(\$2,273,281.02)	(\$2,347,139,82)
Additional Reimbursement (I=j-k) (I)	\$41,660,731.50	\$42,768,827.93	\$38,357,113.73	\$39,508,321.32	\$59,547,027.00	\$60,698,234.59	\$141,643,684.16	\$139,565,062.11	\$115,713,677.40	\$113,635,055.35	\$83,295,520.91			
									,	7-20,000,000.33		\$84,374,876.13	\$94,028,790.44	\$95,047,303.35
SUMMARY:														
Total Cost of Option (m=b+g+h+i) (m)		\$96,422,757.88 100%	\$86,047,826.75 100%	\$88,830,537.88 100%	\$105,426,011.46 100%	\$108,208,722.58 100%	\$172,307,907.03 100%	\$167,283,439.91 100%	\$146,377,900.27 100%	\$141,353,433.15 100%	\$108,064,758.33 100%	\$109,144,113.56 100%	\$138,456,279.18 100%	\$140,918,239.30 100%
Less estimated MSBA grand funding (n=c+k) (n) Estimated Total Cost to Town of Abington	(\$52,083,524.00) -56% \$41,660,731.50 44%		(\$47,690,713.02) -56% \$38,357,113.73 44%	(\$49,322,216.56) -56% \$39,508,321.32 44%		(\$47,510,487.99) -56% \$60,698,234.59 44%	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU		(\$30,664,222.88) -56%		NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN	(\$24,769,237.43) -56%	(\$44,427,488.73) -56%	(\$45,870,935.96) -56%
		1470	, 55,55., ,23.73 44/0	7-5,500,522.32 4476	44% 44%	200,038,234.59 44%	\$141,643,684.16 44%	\$139,565,062.11 44%	\$115,713,677.40 44%	\$113,635,055.35 44%	\$83,295,520.91 44%	\$84,374,876.13 44%	\$94,028,790.44 44%	\$95,047,303.35 44%

Preliminary Evaluation of Alternatives

base repair option

The Base Repair Option is **NOT** intended to be a viable solution for the Town of Abington. It does not resolve the overcrowding or educational deficiencies within the Abington Public School system. It does not provide any additional or new educational space, and does not modernize any existing educational space. It does not provide new instructional technology, needed programs, expanded community resources, or many of the educational and community benefits inherent in a viable solution.

The Base Repair Option **IS** intended to identify the significant expenditures required to resolve basic infrastructure, accessibility, and code compliance issues within the middle school and high school facilities over the next several years. It is intended to demonstrate that it would be much more fiscally responsible to address the comprehensive needs of the Abington Public School system with a viable solution that includes MSBA grant reimbursement funding, than it would to proceed with unreimbursed (no grant funding) capital expenditures for base repairs over the next several years. The MSBA requires that a Base Repair option be evaluated in order to compare it to viable options which address the comprehensive needs of the district. In the case of Abington, the significant cost of the Base Repair Option makes it obvious that the Town of Abington has managed to keep its school buildings in service for a very long time (1936 Frolio and 1962 High School), but now significant infrastructure, accessibility, and code compliance issues must be addressed.

Frolio Middle School

Base Repair Option

Sitework

Phasing

General Conditions

Demolition

Asbestos Removal

Lead Removal

Concrete

Masonry

Structural Steel

Lightgage Framing

Misc. Metals

Stair

Rough Carpentry

Finish Carpentry

Waterproof/Sealants

Insulation

Roofing/Flashing

Doors (Wood & HM)

Alum. Entrances

Alum. Windows

Door Hardware

Glass & Glazing

Drywall

Fire Proofing

Ceramic / Quarry Tile

Acoustical Ceilings

Acoustical Panels Wood Flooring

		BASE REPAIR OPTION Existing 1936 Building: 51,729 sf Minimal Reno - Code and Regulatory compliance only
	51,729 sf	Major systems requiring replacement
Cost/SF	Cost	Comments
	\$625,000.00	MA Accessibility compliance on parking,
		sidewalks, field access, building entries
		All major building entries require significant madifications, as they are half-floor above outside grade.
		All exterior site features utilized by the school
		(including stadium and stadium bleachers) are
		non-compliant and are assumed to require
		compliance as part of any renovations. Work must be conducted during unoccupied
		periods
	\$590,000.00	General Conditions, overhead, profit
	\$175,000.00	Selective demolition for access to replacemen
		of building systems. ADA/MAB modifications to door entries, corridors, toilets
	\$145,000.00	contained selective abatement at disturbed areas
	\$25,000.00	contained selective abatement at exterior windows
	\$65,000.00	sidewalk/entry/ramping/bleacher replacement modifications
	\$150,000.00	Masonry repointing and repair at exterior (not comprehensive, repair only). Masonry modification to interior door openings ADA/MAB compliance
	\$175,000.00	Seismic modifications at building interior. Ram and lift structure modifications
	\$35,000.00	
	\$30,000.00	Exterior lintel reinforcement @ windows and louvers
	\$40,000.00	ADA/MAB compliance on stairs and landings
	\$25,000.00	misc. rough block'g at roof and elec./mech. modifications
	\$25,000.00	Repairs at areas modified for accessibility
	\$20,000.00	replace exterior sealants at joints
	\$360,000.00	Includes complete removal and replacement
	\$45,000.00	Interior doors, exterior doors & Fire rated door required for compliance
	\$35,000.00	Replace aluminum storefronts at entries
	\$670,000.00	Replacement of existing exterior windows
	\$40,000.00	ADA/MAB compliance
	\$30,000.00	Rated glass required at fire door assemblies
	\$35,000.00	Interior modifications for ADA/MAB compliance. Restore selective demo areas
	¢ 40 000 00	where systems have been replaced.
	\$40,000.00 \$70,000.00	Repair of firewalls at existing building
		Repair at handicap toilet modifications
	\$170,000.00	Full Replacement of existing ceiling system due to disturbance associated with systems replacement and non-compliant met-away til
		The state of the s

Feasibility Study - Abington Public Schools

	Cost/SF	Cost	Comments
Resilient Flooring		\$20,000.00	Selective replacement where door entries have
•			been modified for accessibility
Carpet			
Painting		\$40,000.00	Patch/paint disturbed areas only
Theatrical Equipment			
Misc. Specialties		\$28,000.00	Interior ADA signage
Food Service Equip.		\$125,000.00	Some reconfiguration and equipment replacement required for code compliance
Gym Equipment			
Casework / Fixed		\$145,000.00	ADA/MAB modifications to non-compliant cabinets, counters, casework
Assembly seating			
Bleachers		\$35,000.00	ADA/AAB Compliance modifications at assemblareas
Elevator		\$325,000.00	Elevator retrofit required; possibly in two locations.
Fire Protection		\$175,000.00	Reconfiguration of existing system to meet current code compliance
Plumbing		\$925,000.00	fixture replace, vacuum break, domestic upgrade, sanitary main replacement
HVAC		\$1,650,000.00	replace non-compliant and deteriorated systems. Addition of automated controls
Electrical & Telecom.		\$775,000.00	partial power, partial data, partial lighting, fire alarm replacement
Total Building cost	\$139.92	\$7,238,000.00	
Total Site cost	\$12.08	\$625,000.00	
Total Building & Site	\$152.00	\$7,863,000.00	
A/E Fees		\$786,300.00	architectural and engineering design fees
Owner's Project Manager (OPM) fees		\$235,890.00	Management of design and construction
opographical survey		\$15,000.00	For exterior modifications and design
Seotech investigation		\$5,000.00	For exterior ramp and stair design
Permitting			
Move Management			
Owner admin. Costs		\$15,000.00	
Printing / Advertising		\$30,000.00	printing of bid documents and public advertising
Construction testing		\$15,000.00	required independent testing during construction
urniture & Equipment		\$175,000.00	minimal amount of ADA/MAB compliant furniture
Technology		\$225,000.00	security, phones, access controls for new ADA/ MAB doors and hardware
Project Contingency		\$786,300.00	project and construction contingency
Project Management/Commissioning			
otal Project Cost	\$196.24	\$10,151,490.00	
MSBA Reimbursement	\$0.00	\$0.00	0%
Total Cost to Abington	\$196.24	\$10,151,490.00	

^{*} Costs are derived from a database of Massachusetts Public School projects which were bid during the past three years. Two years of 5% inflation have been added to all costs to reflect the fact that projects would have to be staggered over a minimal two-year period.

^{*} Costs do not include interest and other borrowing costs

^{*} MSBA reimbursement is stated as zero, under the assumption that the above capital expenditures do not address many of the significant overcrowding and educational deficiencies and therefore would not qualify for MSBA reimbursement.

Abington High School

Base Repair Option

Sitework

Phasing

General Conditions

Demolition

Asbestos Removal

Lead Removal

Concrete Masonry

Structural Steel

Lightgage Framing

Misc. Metals

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Rough Carpentry

Finish Carpentry

Waterproof/Sealants

Insulation

Roofing/Flashing

Doors (Wood & HM)

Alum. Entrances

Alum. Windows

Door Hardware

Glass & Glazing

Drywall

Fire Proofing

Ceramic / Quarry Tile

Acoustical Ceilings

Acoustical Panels

Wood Flooring

		BASE REPAIR OPTION
		Existing 1962 Building: 111,831 sf
		Minimal Reno - Code and Regulatory
		compliance only
	111,831 sf	Major systems requiring replacement
Cost/SF	Cost	Comments
	\$575,000.00	MA Accessibility compliance on parking,
		sidewalks, field access, building entries
		All major building entries require significant madifications, as they are half-floor above
		outside grade.
		All exterior site features utilized by the school
		(including stadium and stadium bleachers) are
		non-compliant and are assumed to require
		compliance as part of any renovations.
		Work must be conducted during unoccupied periods
	\$590,000.00	General Conditions, overhead, profit
	\$240,000.00	Selective demolition for access to replacement
	42.0,000.00	of building systems. ADA/MAB modifications to
		door entries, corridors, toilets
	\$195,000.00	contained selective abatement at disturbed
		areas
	\$135,000.00	sidewalk/entry/ramping/bleacher replacement,
	\$25,000.00	modifications Minor masonry repointing and repair at exterio
	\$25,000.00	(not comprehensive, repair only). Masonry
		modification to interior door openings ADA/
		MAB compliance
	\$225,000.00	Seismic modifications at building interior. Ramp
	450,000,00	and lift structure modifications
	\$50,000.00	Interior modifications for ADA/MAB
		compliance. Restore selective demo areas where systems have been replaced.
		where systems have been replaced.
	\$65,000.00	ADA/MAB compliance on stairs and landings
	\$35,000.00	misc. rough block'g at roof and elec./mech.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	modifications
	\$30,000.00	Repairs at areas modified for accessibility
	\$10,000.00	replace exterior sealants at joints
	\$510,000.00	Includes complete removal and replacement
	\$65,000.00	Interior doors, exterior doors & Fire rated doors
		required for compliance
	\$65,000.00	ADA/MAB compliance
	\$40,000.00	Rated glass required at fire door assemblies
	\$75,000.00	Interior modifications for ADA/MAB
		compliance. Restore selective demo areas
	\$80,000.00	where systems have been replaced. Repair of firewalls at existing building
	\$110,000.00	Repair at handicap toilet modifications
1	\$170,000.00	Full Replacement of existing ceiling system due to installation of new utilities and fire
1	1	Take to installation of new utilities and me
		protection system

Feasibility Study - Abington Public Schools

CONTRACTOR AND ADDRESS OF	PRINCIPLE OF THE PRINCI	
Cost/SF	Cost	Comments
	\$25,000.00	Selective replacement where door entries have been modified for accessibility
	\$65,000.00	Patch/paint disturbed areas only
	\$62,000.00	Interior ADA signage
	\$90,000.00	Some reconfiguration and equipment
		replacement required for code compliance
	\$175,000.00	ADA/MAB modifications to non-compliant
		cabinets, counters, casework
	¢150,000,00	ADA/AAD Compliance we differ tions at easemb
	\$150,000.00	ADA/AAB Compliance modifications at assemb areas
	\$450,000,00	Elevator retrofit required; possibly in two
	7.00,000.00	locations.
	\$440,000.00	New fire protection (sprinkler) system to meet
		current code requirements
	\$1,150,000.00	fixture replace, vacuum break, domestic upgrade, sanitary main replacement
	\$2,100,000.00	replace non-compliant and deteriorated systems. Addition of automated controls
	\$1,250,000.00	partial power, partial data, partial lighting, fire alarm replacement
\$77.55	\$8,672,000.00	erann repraeement
\$5.14		
\$82.69	\$9,247,000.00	
	\$924.700.00	architectural and engineering design fees
		Management of design and construction
		For exterior modifications and design
		For exterior ramp and stair design
	\$3,000.00	Tot exterior famp and stan design
	\$15,000,00	
		printing of bid documents and public
	\$50,000.00	advertising
	\$15,000.00	required independent testing during construction
	\$225,000.00	minimal amount of ADA/MAB compliant furniture
	\$225,000.00	security, phones, access controls for new ADA, MAB doors and hardware
	\$924,700.00	project and construction contingency
\$106.44	\$11,903,810.00	
\$0.00	\$0.00	0%
1		1
	\$5.14	\$25,000.00 \$65,000.00 \$62,000.00 \$175,000.00 \$150,000.00 \$440,000.00 \$1,150,000.00 \$1,150,000.00 \$1,250,000.00 \$1,250,000.00 \$5,14 \$575,000.00 \$5,14 \$575,000.00 \$2,77,410.00 \$15,000.00 \$15,000.00 \$15,000.00 \$15,000.00 \$277,410.00 \$15,000.00 \$277,410.00 \$15,000.00 \$277,410.00 \$15,000.00 \$15,000.00 \$15,000.00 \$225,000.00 \$225,000.00

^{*} Costs are derived from a database of Massachusetts Public School projects which were bid during the past three years. Two years of 5% inflation have been added to all costs to reflect the fact that projects would have to be staggered over a minimal two-year period.

 $[\]ensuremath{^{*}}$ Costs do not include interest and other borrowing costs

^{*} MSBA reimbursement is stated as zero, under the assumption that the above capital expenditures do not address many of the significant overcrowding and educational deficiencies and therefore would not qualify for MSBA reimbursement.

1	Major Milestones Timeline
2	Facilities Evaluation
3	Site Evaluations Summary
4	Educational Visioning Summary Document
5	Educational Programming Document
6	Introduction Document
	Space Summary Documents
8	Options Considered Document
9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones

Why does the renovation and expansion of an EXISTING SCHOOL sometimes cost about the SAME or MORE than the construction of a NEW SCHOOL?

- 1. BASIC FACTS: The current Abington High School building is 111,831 square feet in size. The Frolio Middle School, built in 1937, is simply too old and too costly to renovate. Abington's School Feasibility Study has investigated several potential building sites, reviewed 12 different school building and grade reconfigurations, and researched the regulations of the Massachusetts School Building Authority to determine how Abington could solve system-wide education needs with only one building project, while also maximizing the amount of state grant money to help pay for school construction costs. The Study has shown that the most cost-effective and viable construction site would be at or adjacent to the existing Abington High School building on Gliniewicz Way. The Abington School Building Committee (ASBC) is still reviewing the pros and cons of several new school building alternatives, including but not limited to a new stand-alone Middle School (Grades 5-8 or 6-8) adjacent to the existing High School; a new Middle School wing to be added onto the High School, with significant renovations and upgrades to the High School; a new "co-located" Middle & High School Building (Grades 5-12 or 6-12) next to the existing AHS building (which would thereafter be razed), and several other alternatives.
- 2. BUILDING AGES: As of 2013, Abington High School (1963) is 50 years old; Woodsdale School (1958) is 55 years old; Beaver Brook Elementary School (1952) is 61 years old; North School and Center School (1939) are both 74 years old; and the Frolio Middle School (1937) is 76 years old. According to data compiled by the Massachusetts School Building Authority (MSBA), with an average school building age of 65 years, the Town of Abington is currently believed to have the oldest school buildings in all of Southeastern Massachusetts.
- 3. ONE NEW BUILDING MAY BENEFIT ALL GRADE LEVELS: Each new school building alternative will create different benefits and effects on Abington's other school buildings and grade levels. For example, combining Grades 5-12 on Gliniewicz Way would allow the town to move Grades 3 & 4 into the Woodsdale School, use the Beaver Brook School for K-2, and thereafter close the North, Center and Frolio Schools for school uses (the townspeople could later decide if those closed schools should be sold or re-used for other town purposes). If only Grades 6-12 are located at a school on Gliniewicz Way, Grades 4 & 5 would use the Woodsdale School, Grades 1-3 would be located at Beaver Brook, and the Center School would have to remain open to house Kindergarten and Pre-School. Documentation for all 12 different school layout and grade re-configuration plans are available for review from the ASBC. In order to qualify for MSBA state grant funding, Abington's final school building proposal must demonstrate that it will resolve the educational planning, programming and space needs for the town for the next 50 years, or the MSBA will reject the plan and provide no project funding to Abington. Based on the knowledge gained from previous school projects in many other towns, and based on the actual size of Abington's existing school buildings and projected grade populations, Abington's Feasibility Study suggests that converting the existing Grade 9-12 High School site into a school serving Grades 6-12 or Grades 5-12 would likely (a) maximize the funding from the MSBA, (b) result in renovated or new classrooms for more grade levels, and (c) address the overcrowding and classroom size issues in all of our school buildings. If the town and the state were to approve the construction of a "co-located" Middle & High School Building (Grades 5-12 or 6-12) on Gliniewicz Way, such a building would maintain a High School for Grades 9-12, with a separate and

designated wing for Grades 7 & 8 and another separate area for Grades 5 & 6 (or a combined Grades 6-8 wing). Much of the common spaces, such as a cafeteria, gymnasium space, auditorium, school library, and administrative offices would be constructed between the High School classrooms and the 5-8 classrooms. This general design layout would assure that the older and younger Grades would be physically separated from each other, but would also allow the various common spaces to be utilized by different age groups at different times. The shared use of gyms, cafeterias, etc. among several Grade levels in one consolidated "co-located" school building will also strengthen the Abington's School Building Committee's efforts to qualify for increased reimbursement from the Massachusetts School Building Authority (MSBA), thus lowering Abington's share of the construction costs.

- 4. MIDDLE SCHOOL CONSTRUCTION: Addressing and correcting the problems created by the old age and old layout of our existing Frolio Middle School is our town's first priority. The Frolio School building must be replaced. To provide sufficient classroom space for Grades 5-8 (a true middle school), together with improvements to centralized common spaces, would require the construction of approximately 145,000 square feet of new floor space. Therefore, based on square footage calculations, if Abington elected to renovate the existing Abington High School and constructed an attached new Middle School wing (instead of constructing an entirely new Grade 5-12 building), the majority of Abington's school construction project would still constitute "new construction". The same finding would hold true if the Grade 6-12 school building alternative was selected, except that any additional desired improvements for other grades levels at the Woodsdale or Beaver Brook or Center Schools would require the town and state to fund a second and separate school construction project a few years later. The MSBA will not fund two separate construction projects on two separate building sites at the same time; the MSBA grant program promotes and rewards the cost-efficiencies created by encouraging the design and construction of a single school building project which provides benefits to the town's entire school system.
- 5. HIGH SCHOOL OR FROLIO SCHOOL RENOVATION: The Town is seeking reimbursement grant funding from the state (MSBA) in order to pay for approximately 55-60% of Abington's eventual school construction project. To qualify for state grant funding, towns must insure that any school renovation work will address all of the physical needs of the school, while also addressing the educational needs of the town's students. The MSBA sets minimum classroom sizes (and maximum sizes), must approve layout and configuration plans, and must confirm that the renovated spaces will actually serve the needs of the town for at least the next 50 years. Otherwise, no grant funding will be approved. Due to the age of Abington High School and the Frolio Middle School, the amount of renovation work which would be required under current law is extensive, and would constitute a "Comprehensive Renovation Project" at either site.
- 6. COMPREHENSIVE RENOVATION PROJECT: The renovation of commercial buildings and public buildings (such as schools) trigger much more extensive Code requirements than a typical home renovation project. State and federal laws, such as the Americans with Disabilities Act (ADA) regulations and fire safety regulations, require significantly more structural and mechanical upgrades for school renovation projects. A desire or need to change the layout of the Frolio School's or the High School's floor plan in order to meet current educational guidelines and standards would trigger a requirement to bring either or both of those school buildings within complete compliance with all

current Massachusetts Building Code regulations, all of the new State Energy Code requirements, all Massachusetts Architectural Access Board regulations (and federal ADA regulations), and all fire safety regulations. Once over 30% of the assessed value of a school building is renovated, state law then requires the ENTIRE building to be brought up to date with ALL applicable codes and regulations. In short, and as an example, the minimum renovations required to update either school building would require an upgrade or replacement of the entire roof, electrical wiring, plumbing and plumbing fixtures, the exterior building envelope and insulation, windows and doors, fire alarm and fire protection systems, interior stairways and doorways, elevators, all heating and air exchange systems, and building security systems. Obviously, to complete these upgrades, most every wall and ceiling in the building would have to be opened, removed and/or replaced – and somehow the building would have to remain partially functional and occupied for school purposes during these renovations.

- 7. ACCESSIBILITY REQUIREMENTS: Note that the "main floor" of Abington High School and the Frolio Middle School are actually constructed one half-story ABOVE the surrounding site grade. Presently, at the High School, after a visitor or student climbs up the five exterior granite steps at the main entrance, upon passing through the entrance doors, a visitor must then either go up or go down a flight of stairs to reach the main floor or the basement floor level. To conform with current accessibility laws, a renovation project at Abington High School would require major structural modifications to the building and perhaps its surrounding site so that visitors or students with disabilities could enter the building without encountering exterior or interior stairways. Similar structural modifications would be required at every exterior entrance door, and every classroom doorway, every counter height, every bookshelf, every elevator, and every bathroom; all of these building components would have to be reconstructed in order to comply with current ADA, Architectural Access Board (AAB) and Building Code guidelines. Alternative structural modifications which are intended to improve accessibility, but which do not provide 100% accessibility and full compliance with current regulations, would not be sufficient. A similar analysis holds true for the Frolio Middle School.
- 8. NEW ENERGY CODE REQUIREMENTS: The Commonwealth of Massachusetts has adopted an Energy Code which requires every building undergoing significant renovations to comply with a very high standard of energy efficiency. A renovation project at Abington High School and/or the Frolio Middle School would require the old boilers and heating system to be replaced, all lighting fixtures to be replaced, and the entire building envelope (walls, windows and roof) to be upgraded and reconstructed in order to comply with the recent changes to the state's Energy Code. Both school buildings would essentially have to be stripped down "to its bones" and then be reconstructed in accordance with today's Energy Code requirements.
- 9. HIDDEN HAZARDS: In any renovation project, there are unforeseen or "hidden" conditions which are discovered during the demolition phase of a project. These conditions generally result in additional expenditures, and the MSBA recommends that a "construction contingency" be added to project's budget in order to cover these (unknown but anticipated) costs. Although a project budget for "new construction" also requires a construction contingency amount, the industry standard and MSBA recommendation for a renovation project includes significantly higher contingency costs (and thus a higher budget) in order to cover these unforeseen or hidden conditions. For example, although the Town and its School Department has done an excellent job encapsulating or removing potentially friable asbestos in all of our school buildings, a Comprehensive Renovation Project might expose

latent hazards hidden within the building's old walls or ceiling structures (such as asbestos installed in the 1960's). If discovered, any hazardous materials would have to be completely removed from a school before it could be re-occupied, and the process of removing any hazardous materials would require portions of the building to be sealed off while classes were being held in other areas. If hazardous materials were exposed at any time during the renovation of the 50-year-old High School or the 76-year-old Frolio School, the abatement of those hazardous materials would generate significant additional costs -- and would also require the closing of portions of the building during the abatement work, thus resulting in potentially significant delays and cost increases to other portions of any planned renovation work.

10. INCREASED LABOR COSTS AND PROJECT COMPLETION TIME: The most expensive component of any building project is not the building materials - it is the cost of labor. Since the renovation or new construction of a school building would involve a public building, the Town would be required to pay "prevailing wage" (higher hourly wages set by state law) to all of the laborers involved with the project. Notably, the amount of labor hours required to complete a Comprehensive Renovation Project in an occupied high school is significantly greater than the time required to complete the construction of a new unoccupied building. For example, if the Town elected to renovate the High School building instead of opting for new construction, the renovation project would have to be broken into several phases over a much longer period of time (when compared to the shorter timetable for new construction). Similar to other local towns, if renovation is elected, the building would have to be renovated while it is occupied and used as an active high school. Abington does not have an alternative building which could temporarily house our high school student body and teachers. Therefore, for student safety, portions of the current AHS building will have to be cordoned off for renovation work from time to time, but this type of phased renovation project would significantly extend the expected completion time for the project. Renovations of an active, occupied school would also require many of the upgrades to building systems (electrical, plumbing, heating, etc.) to be installed in phases, with many temporary renovations being installed during construction in order to keep existing systems in operation while the newer systems were installed in piecemeal fashion. Time is money, and the time required to complete a school renovation project would prove to be much more expensive than the time required for new construction. Most every town which has recently completed a school construction project has reached the same conclusion, and has voted to proceed with the construction of a new school building as the more cost-efficient solution to their town's long-term needs.

In sum, many of us are familiar with the costs and issues arising during the renovation of our homes or other private property. But the renovation of a large public building is dramatically different, due to heightened requirements for addressing accessibility, hazardous materials, building code compliance, energy code compliance, health/fire/safety regulations and the rigid enforcement of much higher standards. In the end, the laws and regulations which would apply to a renovation project at Abington's 50-year-old High School and/or the 76-year-old Frolio School would effectively require the Town to replace or reconstruct almost every light, plumbing fixture, door, doorway, window, roof, interior wall, exterior wall, electrical service, plumbing pipe, fire alarm system, boiler, heat system, toilet, sink, and stairwell in the school – and it will take longer to complete the reconstruction of the existing school than the time required to build a new 100% compliant school building to serve Abington's needs for at least the next fifty years.

1	Major Milestones Timeline
2	Facilities Evaluation
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6	Introduction Document
	Space Summary Documents
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9	Evaluation Matrix
10	Draft of Cost Analysis Options
	Cost of New School vs. Renovation Document
12	Review of Major Milestones



Abington School District
Feasibility Study & Schematic Design
Major Submissions to MSBA
Town Actions and Approvals
All Architects, LLC
August 14, 2013

sign lional lional tion classes syelogeneral contraction classes syelogeneral contraction	Program	Program	Summary	of Existing Conditions	oment Requirements	Evaluation of Alternatives		
	esign Program	ational Program	al Space Summary	uation of Existing Conditions	Development Requirements	minary Evaluation of Alternatives	Actions and Approvals (Joint School Committee /	
tem Task		Preliminary Design Program	Preliminary Design Program Educational Program	Preliminary Design Program Educational Program Initial Space Summary	Preliminary Design Program Educational Program Initial Space Summary Evaluation of Existing Conditions	Preliminary Design Program Educational Program Initial Space Summary Evaluation of Existing Conditions Site Development Requirements	Preliminary Design Program Educational Program Initial Space Summary Evaluation of Existing Conditions Site Development Requirements Preliminary Evaluation of Alternatives	

Preferred Schematic Study and Report Final Evaluation of Existing Conditions Final Evaluation of Alternatives Preferred Solution Local Actions and Approvals (School Committee / Building Committee / Board of Selectmen) Date of Submission to MSBA						Week of 11/25/13	12/2/13
	Preferred Schematic Study and Report	Final Evaluation of Existing Conditions	Final Evaluation of Alternatives	Preferred Solution	Local Actions and Approvals (School Committee / Building Committee / Board of	Selectmen)	Date of Submission to MSBA

																Week of 7/28/14	0/11/1/
Schematic Design Submittal Requirements	Final Design Program	Traffic Analysis	Environmental & Existing Building Assessment	Geotechnical & Geo-environmental Analysis	Utility Analysis & Soils Analysis for On-Site Septic/Sewage Treatment Facilities	Massing Study	Narrative Building Systems Description	LEED-S Documents	Compliance with ADA and MAAB	Anticipated Reimbursement Rate & Incentive Points	Total Project Budget	Designers Construction Cost Estimate	Project Schedule	Schematic Design Drawings	Local Actions and Approvals (School Committee / Building Committee / Board of	Selectmen)	Date of Submission to MSBA
							1	3	d	E	1	S	l R				

Sentember 2014	ochical sor	October 2014	1 102 100000	within 120 days of MSBA B O D vota	30, 30, 30, 30, 30, 30, 30, 30, 30, 30,
MSBA Project Scope and Budget Meeting with Town	MCBA Board of Discontinuity	Haba Board of Directors Vote	Abinoton Town Mosting and Dak Evelinian	Commission fown recently and Debt Exclusion	